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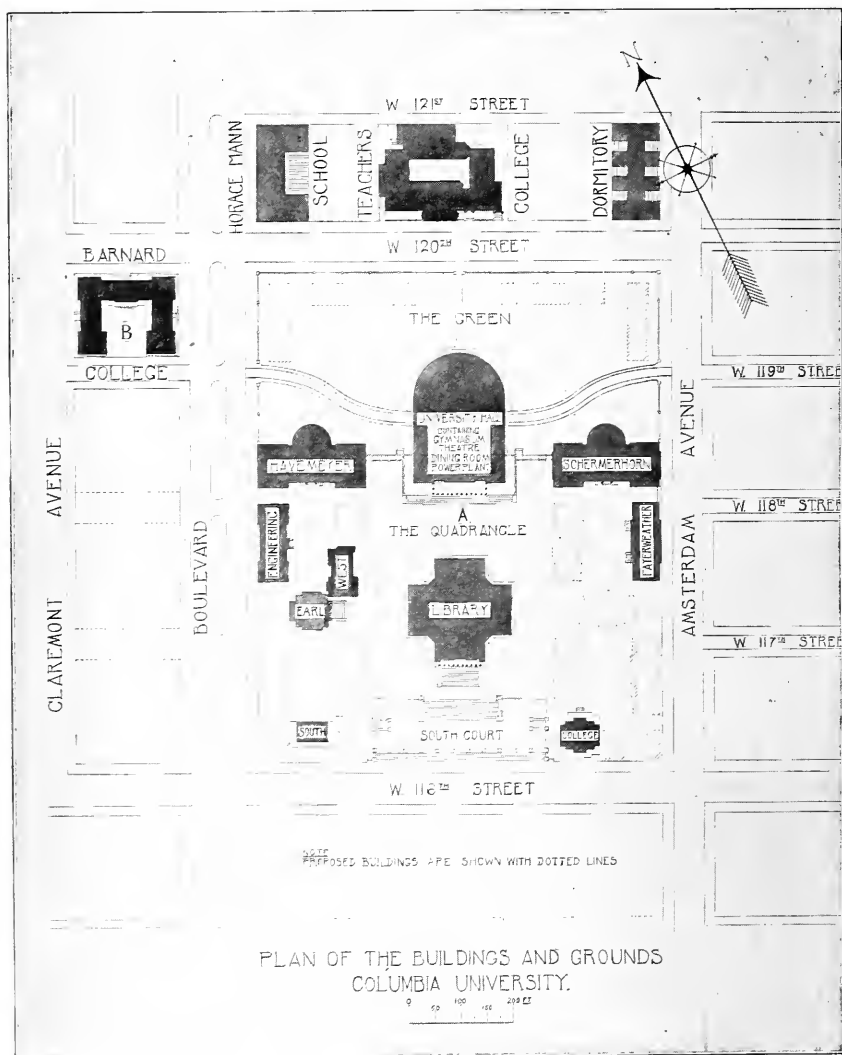






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 Instructor in Neurology

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 College and in the Summer Session, see the Table of Contents.

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# Columbia University in the City of New York

## GENERAL STATEMENT

On October 31, 1754, during the reign of George II., His Majesty's Letters Patent under the Great Seal of the Province were issued, incorporating THE GOVERNORS OF THE COLLEGE OF THE PROVINCE OF NEW YORK IN THE CITY OF NEW YORK IN AMERICA, and providing for the establishment of a College to be known as "Kings College," "for the Instruction and Education of Youth in the Learned Languages and in the Liberal Arts and Sciences." The interpretation placed upon this clause of the Charter, at the time, is shown by the original announcement of Kings College in 1754, which, in part, reads as follows: "Vth and Lastly, A serious, virtuous, and industrious Course of Life being first provided for, it is further the Design of this College, to instruct and perfect the Youth in the learned Languages, and in the Arts of Reasoning exactly, of Writing correctly, and Speaking eloquently: And in the Arts of Numbering and Measuring, of Surveying and Navigation, of Geography and History, of Husbandry, Commerce, and Government; and in the Knowledge of all Nature in the Heavens above us, and in the Air, Water, and Earth around us, and the various Kinds of Meteors, Stones, Mines and Minerals, Plants and Animals, and of every Thing useful for the Comfort, the Convenience, and Elegance of Life, in the chief Manufactures relating to any of these things: And finally, to lead them from the Study of Nature, to the Knowledge of themselves, and of the God of Nature, and their Duty to Him, themselves, and one another; and every Thing that can contribute to their true Happiness both here and hereafter."

The charter named as Governors the Archbishop of Canterbury, the Governor of the Province, certain officers of the Crown, ex-officio, the Rector of Trinity Church, and the Ministers of the Reformed Dutch, Lutheran, French, and Presbyterian Churches, for the time being, and twenty-four residents of the city. Under this charter, Kings College was founded, continuing to be known by that name until 1784. An additional charter was granted May 30, 1755, authorizing the appointment of a Professor of Divinity by the Reformed Protestant Dutch Church.

Upon the convening of the Legislature of the State of New York in 1784, an act was passed incorporating the "REGENTS OF THE UNIVERSITY OF THE STATE OF NEW YORK," and vesting the property of Kings College in the Regents. The act also changed the name of the College to Columbia College.

In 1787, this act was repealed, and a statute was passed enacting "that the Charter heretofore granted to the Governors of the College of the Province of New York in the City of New York in America, dated the thirty-first day of October, in the year of our Lord one thousand seven hundred and fifty-four, shall be and hereby is fully and absolutely ratified and confirmed, in all respects, except that the College thereby established shall be henceforth called Columbia College"; and "that the style of the said corporation shall be, The Trustees of Columbia College in the City of New York." Certain other amendments also were made in the charter to conform to the new conditions.

In 1810, the charter was again amended in certain particulars at the request of the Trustees, and re-enacted, but the corporate title remained and still continues unchanged. The title to all corporate property is vested in a board of twenty-four Trustees, whose term of office is for life, and who form a self-perpetuating body, exercising the power of appointment as to all officers of instruction and administration.

On February 3, 1896, the Trustees adopted the following resolution:

'RESOLVED, That in all official publications hereafter issued by or under authority of the Trustees, all the departments of instruction and research maintained and managed by this corporation may, for convenience, be designated collectively as 'Columbia University in the City of New York,' or 'the University'; and the School of Arts, as the same is now known and described, may hereafter be designated as 'Columbia College,' or 'the College.'"

The President has charge of the Educational administration of the University and is Chairman of the University Council and of every faculty established by the Trustees.\* The principal administrative officers, other than the President, are the Deans of the several faculties, the Secretary of the University, the Librarian, the Registrar, the Bursar, and the Superintendent of Buildings and Grounds.

The University Council is a representative body consisting of the President, the Dean, and the Secretary of the College, ex-officio, and the Dean and one elected member from each of the faculties of the University. Subject to the reserved power of control by the Trustees the University Council has charge of the general educational interests of the University and of all matters affecting more than one faculty.

The work of the University was begun at Morningside Heights on October 4, 1897.

\* Communications for the President should be addressed to him at the University.



## I. THE COLLEGES

*a.* COLUMBIA COLLEGE offers a course of four years, leading to the degree of Bachelor of Arts, conferred upon its graduates upon the recommendation of the Faculty of Columbia College. Candidates for admission to the College must be at least fifteen years of age, and pass an examination on prescribed subjects. The curriculum offers a wide range of electives, both literary and scientific, making it possible for the student to elect such courses during his first three years as will fit him either for the professional course he may intend to pursue, or for advanced work under any of the non-professional faculties. During the senior year the student may study under the Faculties of Law, Medicine, or Applied Science.

*b.* BARNARD COLLEGE, founded in 1889, is an independent corporation whose grounds adjoin those of the University. As an undergraduate college for women, however, it bears the same relation \* to the educational system of Columbia University as does Columbia College as an undergraduate college for men. The requirements for admission and the standard of scholarship are of the same grade. The students receive their instruction in the Barnard College buildings, except that for the time being members of the senior class may attend certain advanced courses in the University. The degree of Bachelor of Arts is conferred upon its graduates by the University upon the recommendation of the Faculty of Barnard College, of which the President of the University is, *ex-officio*, chairman.

## II. THE UNIVERSITY

In a technical sense, the Faculties of Law, Medicine, Philosophy, Political Science, Pure Science, and Applied Science, and the School of Architecture and Department of Music (temporarily set apart from the Faculties of Applied Science and Philosophy, respectively, pending the development in the University of a Faculty of Fine Arts), taken together constitute the University. These faculties offer advanced courses of study and investigation, respectively, in (*a*) private or municipal law, (*b*) medicine, (*c*) philosophy, education, philology, and letters, (*d*) history, economics, and public law, (*e*) mathematics and natural science, (*f*) applied science, and (*g*) architecture and music. Courses of study under all of these faculties are open to members of the senior class in the College, and also to all students who have successfully pursued an equivalent course of undergraduate study to the close of the junior year. These courses lead, through the bachelor's degree, to the university degrees of Master of Arts and Doctor of Philosophy. The degree of Master of Laws is also conferred for advanced work in law done under the Faculties of Law and Political Science together.

\* By virtue of the agreement between the Trustees of Columbia College in the City of New York and the Trustees of Barnard College, dated January 19, 1900.

### A. The Non-Professional Schools

THE FACULTY OF PHILOSOPHY offers advanced courses and opportunities for original research in philosophy and education (through Teachers College), psychology and anthropology, Greek and Latin (including archæology and epigraphy), English, comparative literature, and the Germanic, the Romance, and the Oriental languages.

THE FACULTY OF POLITICAL SCIENCE offers advanced courses and opportunities for original research in political and social science, including history, economics, and public law.

THE FACULTY OF PURE SCIENCE offers advanced courses and opportunities for original research in mathematics, mechanics, and electro-mechanics, astronomy, physics, chemistry, mineralogy, geology, zoölogy, botany, physiology, anatomy, bacteriology, and physiological chemistry.

THE FACULTY OF APPLIED SCIENCE offers advanced courses and opportunities for original research in mining, metallurgy, engineering (civil, electrical, mechanical, and sanitary), and architecture.

In the School of Architecture and the Department of Music, students may pursue advanced courses, and are given opportunities for original research in these subjects.

### B. The Professional Schools

THE FACULTIES OF LAW, MEDICINE, AND APPLIED SCIENCE conduct, respectively, the professional schools of Law, Medicine, and Mines, Chemistry, and Engineering, to which students are admitted as candidates for professional degrees on terms prescribed by the faculties concerned.

THE SCHOOL OF LAW, established in 1858, offers a course of three years in the principles and practice of private and public law, leading to the degree of Bachelor of Laws.

THE COLLEGE OF PHYSICIANS AND SURGEONS, founded in 1807, offers a course of four years in the principles and practice of medicine and surgery, leading to the degree of Doctor of Medicine.

THE SCHOOL OF MINES, founded in 1863, offers courses of study, each of four years, leading to a professional degree, in mining engineering and in metallurgy.

THE SCHOOLS OF CHEMISTRY AND ENGINEERING, set off from the School of Mines in 1896, offer, respectively, courses of study, each of four years, leading to an appropriate professional degree in analytical and applied chemistry; in civil, sanitary, electrical, and mechanical engineering.

THE SCHOOL OF ARCHITECTURE, set apart from the Faculty of Applied Science in 1902, offers a course of study of four years leading to the degree of Bachelor of Science in Architecture.

TEACHERS COLLEGE, founded in 1888 and chartered in 1889, was included in the University in 1898. It is still an independent corpora-

tion, its trustees continuing to assume the entire financial responsibility for its maintenance. It offers instruction in the History and Philosophy of Education and the Theory and Practice of Teaching, and takes academic rank in the University system as a professional school for teachers. It offers the following courses of study: (a) Graduate courses leading to the Doctor's diploma or to the Master's diploma; (b) professional courses, each of two years, leading to the Bachelor's diploma for teachers and supervisors in kindergartens or elementary schools, or for specialists in Domestic Art, Domestic Science, Fine Arts, Manual Training, and Music; (c) a collegiate course of two years which, if followed by a two years' professional course, leads to the degree of Bachelor of Science. Certain of its courses may be taken without extra charge by students of the University in partial fulfilment of the requirements for the degrees of Bachelor of Arts, Master of Arts, and Doctor of Philosophy.

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The division of the University into faculties and schools neither controls nor limits the student in his freedom of electing, under one or several of the faculties, courses that lead to the university degrees of Master of Arts and Doctor of Philosophy. The degree of Master of Laws is also a university degree, but for this degree the choice of the student is restricted to subjects under the two Faculties of Law and Political Science. All of these degrees are granted upon the recommendation of the University Council.

The professional degrees are Bachelor of Laws, Doctor of Medicine, Bachelor of Science,\* Engineer of Mines, Metallurgical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer. These degrees are conferred upon the recommendation of the Faculties of Law, Medicine, and Applied Science, respectively.

All Teachers College diplomas and the degree of Bachelor of Science in Education are conferred by the University upon the recommendation of the Faculty of Teachers College, of which the President of the University is, ex-officio, chairman.

No degrees are granted by the University for work done *in absentia*, and a minimum residence of one complete academic year (or in the case of the degree of Master of Arts attendance at four Summer Sessions) is required of each candidate for a degree.

## ADMISSION

### ENTRANCE EXAMINATIONS

(For information as to entrance examinations see Table of Contents.)

### ADMISSION OF WOMEN

None of the professional schools of the University corporation is open to women.

\* The degree of Bachelor of Science in Architecture is for the present conferred upon the recommendation of the Department of Architecture.

### AUDITORS

Certain courses of lectures are open to the public, men and women alike, on payment of an auditor's fee. No auditor will be admitted to any course without the consent of the instructor, previously obtained; auditors' tickets must be procured from the Registrar of the University, and shown to the instructors in charge of the courses for which they are issued, before attendance upon the courses is begun. Auditors do not have, and cannot receive, any University recognition whatever.

### MATRICULATION, REGISTRATION, AND ENROLMENT

No student is permitted to attend any academic exercise until he has complied with the regulations in regard to matriculation, registration, and enrolment.

Every student will be required, as a condition of admission to the College or to any School, to matriculate on a blank prepared for the purpose, upon which he shall state his name, place of abode, post-office address, and, if he is under twenty-one years of age, the name, place of abode, and post-office address of his father or guardian, and such other information as may be from time to time required.

A student is required to matriculate but once, upon first connecting himself with the University. Registration consists in furnishing to the Registrar, upon blanks provided for the purpose, such information as the University may request. Enrolment consists in filing, upon blanks provided for the purpose, a statement of the courses which a student may be authorized to pursue.

Students entering Barnard College should register and pay their fees at Barnard College. Information regarding fees, etc., will be found in the Announcement of Barnard College.

Students entering Teachers College should register and pay their fees at Teachers College. Information regarding fees, etc., will be found in the Announcement of Teachers College.

Students entering the College of Physicians and Surgeons should register and pay their fees at the offices of the Assistant Registrar and Assistant Bursar, College of Physicians and Surgeons, 437 West 59th Street.

All other students must register in person in the office of the Registrar, Room 109, Library Building, and pay their fees to the Bursar, Room 109, Library Building. All students failing to register within the time limits fixed by the regulations of the University are allowed to register only by the payment of an additional fee of \$5.00. A circular concerning registration regulations may be obtained from the Registrar.

### Withdrawal

Students are requested, in case of withdrawal from the University during the academic year, to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice is given.

## FEES

The regulations of the Corporation of Columbia College in the City of New York in regard to fees are as follows:

*For Matriculation:* (The matriculation fee is required of all students entering the University, including the students of the Summer Session. The matriculation fee is payable but once). . . . . \$ 5

*For Tuition :*

For candidates for a degree:

In the College *	per annum	150
In the School of Law	"	150
In the College of Physicians and Surgeons	"	200
In the Schools of Applied Science †	"	200

For candidates for the degrees of Master of Arts and Doctor of Philosophy . . . . . 150

Provided, however, that the maximum fee for such candidates shall be, respectively, \$150 and \$300 when the course of study for the Master's degree does not exceed three years, and for the Doctor's degree five years. The privileges open to students paying such fee by instalments shall be limited to courses taken for the degree, and any other courses taken by such students must be paid for as though they were special students.‡

For students not candidates for a degree pursuing partial courses, at the rate of \$15 per annum for each hour of attendance per week on lectures or recitations, with a maximum fee of \$150, except that in the College of Physicians and Surgeons and in the Schools of Applied Science tuition shall be at the rate of \$20 per annum for each hour of attendance per week on lectures or recitations, with a maximum fee of . . . . . 200

For all students in the Summer Session . . . . . 25

For auditors, at the rate of \$20 per annum for each hour of attendance per week on lectures or recitations, with a maximum fee of . . . . . 200

\* Seniors taking the first year in the Medical School or in the Schools of Applied Science pay the fee required in those schools, \$200

† For the fees required of candidates for admission to advanced standing, see page 22.

‡ If a student has paid tuition fees to the University as a candidate for A.M., and later registers as a candidate for Ph.D., the amount of such payment will be credited toward the maximum fee for the latter degree. The tuition fee paid at the Summer Session of any year by candidates for a higher degree will be credited toward the maximum fee fixed for the degree for which they are candidates; provided, however, that any student attending a Summer Session must pay the tuition fee of \$25 established for that session.

*For Examinations :*

*At unusual times . . . . .	\$ 5
For the degree of Bachelor of Arts . . . . .	15
For any professional or technical degree . . . . .	25
For the degree of Master of Arts . . . . .	25
For the degree of Doctor of Philosophy . . . . .	35
For the degree of Master of Laws . . . . .	25

*For Use of the Gymnasium :*

All men students except those of the College of Physicians and Surgeons are required to pay an annual gymnasium fee of . . . . .	7
This entitles them to a locker and to the use of the Gymnasium and the baths, including all necessary laundry service.	

Students who are not candidates for a degree shall be charged a fee for laboratory courses and for the use of laboratories in accordance with the following schedule:

**Laboratory Fees for Special Students**

DEPARTMENT	UNIT OF TIME	RATE
Anatomy	Year	Per course: \$10 for Courses 5, 6, 10, 11, 13, 14, 17-29. \$5 for Courses 12, 15, 16
Architecture	Year	\$25 for use of draughting room only
	Two months	\$10 for the same privilege
Botany	Year	\$10 for use of laboratories by students not candidates for a degree
Chemistry	Year	\$50 for use of laboratories, or any of them
Engineering: Civil Engineering	Two weeks	Course 11. Cement Testing laboratory \$15
	One month	Course 5. Laboratory for testing materials, \$30

\* From and after July 1, 1903, any examination given in Columbia College and in the Schools of Law, Medicine, and Applied Science, other than those offered at the mid-year or final examination periods in a given course or courses, or those offered in May and September of each year to students previously found deficient, will be held to be an examination at an "unusual time" and the statutory fee of \$5.00 will be charged therefor. The results of any examination held at such an unusual time will not be recorded by the Registrar until the student presents a receipt for the special examination fee.

DEPARTMENT	UNIT OF TIME	RATE
Engineering (Continued):		
Electrical Engineering	Year	Course 11, \$50; Course 10 or 12, \$40; Course 5 (laboratory portion) or 27, \$15; Course 28, \$10
Mechanical Engineering	Year	\$50 for use, by non-candidates, of laboratories, or any of them
Geology		Recommendation that no fees be charged
Metallurgy	Year	Per course: \$100 for Courses 6, 9, 10, 14, 15. \$75 for Course 8. \$50 for Courses 11, 12, 13, 16, 17, 18, 19. \$25 for Course 6a. \$20 for Course 7
Mining	Year	Course 5, \$50
Pathology: Pathology	Month	Course 2, \$25 Course 3, \$15 Course 4, \$25
Clinical Pathology		Course 1, \$15 Course 2, \$25
Bacteriology and Hygiene		Course 1, \$15 Course 2, \$35 Course 3, \$25
Normal Histology		Course 1, \$25 Course 2, \$15 Course 3, \$25
Physics	Year	\$25 for use of laboratories by those not taking other instruction from department; \$5 for special students taking other than undergraduate lecture courses
Physiological Chemistry	Year	\$25 per course
Physiology	Year	Course 2, \$15 Course 4, \$15
Psychology		Recommendation that no fees be charged
Zoölogy	Year	\$25 for 1 day per week; each additional day, \$15
	Half-year	\$15 for 1 day per week; each additional day, \$7.50

## Laboratory Fees for the Summer Courses in Surveying.

DEPARTMENT	UNIT OF TIME	RATE
Civil Engineering	Five weeks	Course 15, \$25, or \$7 per survey for students with advanced standing
	Five weeks	Course 16, \$15, or \$5 per survey for students with advanced standing
	Two weeks	Course 16a, \$5
	Four weeks	Course 17, \$10

A deposit for the use of apparatus, material, and other like purpose shall be charged when prescribed by the head of the department supplying the same, with the approval of the President and Treasurer. For details as to the charges consult the Bulletin of Information of the department concerned.

The amount of fees to be paid in special cases for partial attendance shall be determined by the President and Treasurer.

Students who have taken the degree of Doctor of Philosophy in this University may, with the consent of the University Council, continue their researches in the laboratories or Library of the University without the payment of tuition fees.

Candidates \* for admission to advanced standing who attend the Summer Courses in Surveying are required to pay therefor fees as follows:

For tuition, Course 15, Civil Engineering	.	.	.	\$25
" " " 16 " "	.	.	.	25
" " " 16a " "	.	.	.	10
" " " 17 " "	.	.	.	25

Students\* not candidates for a degree, who attend the Summer Courses in Surveying are required to pay the same fees as are specified for candidates for admission to advanced standing.

Students who have entered the Schools of Applied Science with advanced standing, deficient in any course in Surveying, and who subsequently attend the Summer Courses in Surveying, are required to pay the above specified fees for the respective courses in which they were deficient at entrance.

Students of the College who attend the Summer Courses in Surveying are required to pay the same fees as candidates for admission to ad-

\* Any student who subsequently enters any of the Schools of Applied Science shall have credited to his account at the time of his graduation an amount equal to the tuition fee which he paid before entrance for any course of Surveying which could have been taken after he entered regularly in the class with which he finally graduates.



vanced standing. Any such student who afterwards completes one of the regular courses in Applied Science will have credited to his account at the time of his graduation an amount equal to said fees less thirty-five dollars.

From and after the summer of 1902, every student who fails to attend and complete the respective courses in Surveying regularly with his class shall be allowed to attend the Summer Courses in Surveying only upon the payment of tuition fees as above specified for candidates for admission to advanced standing.

Candidates for admission to advanced standing who attend the summer course in Practical Mining are required to pay therefor a fee of \$50.

#### Payment of Fees \*

The matriculation fee shall be paid before the entrance examination. Examination fees shall be paid in all cases before examination. From and after July 1st, 1902, every student failing to register within the limits of time fixed by the regulations of the University, shall be allowed to register only upon the payment of an additional fee of \$5.

Annual tuition fees shall be paid in equal instalments on or before the last Saturday of October, and on or before the third Saturday in February in each academic year, except that whenever the total amount of a student's tuition fees shall not exceed one hundred dollars, the full amount shall be paid on or before the last Saturday of October. Tuition and laboratory fees for the Summer Courses in Surveying shall be paid on or before the last Saturday in May.

#### Comparative Statement of Students' Expenses for the Academic Year, October to June

BASED ON STUDENTS' STATEMENTS

	Low	Average	Liberal
Matriculation Fee (First Year) . . . . .	\$ 5	\$ 5	\$ 5
Tuition Fee . . . . .	150	150	150
Gymnasium Fee . . . . .	7	7	7
Books . . . . .	15	30	40 up
College Incidentals . . . . .	—	15	50 "
Room (32 weeks) . . . . .	48	112	160 "
Board (32 weeks) . . . . .	112	128	192 "
Clothes and Washing . . . . .	35	75	125 "
All other expenses . . . . .	15	25	100 "
Total . . . . .	\$387	\$547	\$829 up

\* For information as to the offices at which students of the College of Physicians and Surgeons, Barnard College, and Teachers College should pay their fees see p. 18.

No candidate for a degree in any school shall be entitled to receive the same until he shall have discharged all his dues to the University.

In the case of students in the Schools of Medicine and Applied Science \$50 for tuition should be added, as the fee in these cases is \$200.

### COMMITTEE ON EMPLOYMENT FOR STUDENTS

The University Council has constituted a Standing Committee on Employment for Students, consisting at present of the following members:

JAMES F. KEMP.....	<i>Faculty of Pure Science, Chairman</i>
THOMAS S. FISKE.....	<i>Faculty of the College</i>
GEORGE S. HUNTINGTON.....	<i>Faculty of Medicine</i>
FRANCIS M. BURDICK.....	<i>Faculty of Law</i>
FREDERICK R. HUTTON.....	<i>Faculty of Applied Science</i>
FRANKLIN H. GIDDINGS.....	<i>Faculty of Political Science</i>
HENRY A. TODD.....	<i>Faculty of Philosophy</i>
F. P. KEPPEL.....	<i>Secretary of the University</i>
RUDOLF TOMBO, Jr.....	<i>Registrar of the University</i>
JOSIAH C. MCCracken.....	<i>Secretary of Earl Hall</i>
REUBEN A. MEYERS.....	<i>Secretary of the Committee</i>

It is the design of the Committee to put students desiring to work their way through college, especially those coming from elsewhere than New York or the immediate vicinity, in the way of earning enough for their partial or complete support, or if possible to extend assistance to them in other ways, while they are pursuing their studies here. It is believed that many opportunities may be offered to students of this class if the fact of their desire to obtain employment is made known. Some of the openings likely to be available are: private tutoring, translating, copying of various sorts, teaching in evening schools, travelling companions, stenography, and typewriting. Communications should be addressed to the Committee.

As the result of long experience, the Employment Committee advises Medical and Engineering Students not to undertake outside work of any kind during the academic year. The demands of these courses in lectures and laboratory work are so exacting and inflexible as to make additional responsibilities a greater burden than can be wisely assumed. It would even be better for such students to withdraw from the University for a year in order to earn the money necessary to enable them to give undivided attention to their work while in attendance.

While much work is found for students, each year, preference is naturally given in case of a choice of applicants for a position to those

who have spent at least a portion of a year at Columbia, and thus have become personally known to members of this Committee or to other officers. No prospective student should come to Columbia depending entirely or even largely upon the assistance of the Committee, but should be prepared to meet at least the expenses of the first half-year—say two hundred and fifty dollars.

All the heads of clinics in the Medical School have consented to give advice without charge to students who are on the lists of the Committee, and who present cards of introduction from one of its members. Such visitors are received, as a general rule, during office hours at private offices. This insures to students who need it the best medical advice in the city.

### APPOINTMENT COMMITTEES

The duty of these Committees is to recommend graduates of the College or University for teaching or other positions in colleges and universities and to assist competent graduates to obtain such positions.

The Committees keep classified lists of those who wish employment, and will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

No fees are charged for any service rendered by either Committee.

#### University Appointment Committee

For positions in colleges and universities, except in the Department of Education

JAMES HULME CANFIELD, A.M., LL.D. ....	<i>Chairman</i>
	<i>Librarian of the University</i>
FREDERICK R. HUTTON, E.M., Ph.D. ....	<i>Professor of Mechanical</i>
	<i>Engineering</i>
EDWIN R. A. SELIGMAN, Ph.D. ....	<i>Professor of Political Economy and</i>
	<i>Finance</i>
JAMES MCKEEN CATTELL, Ph.D. ....	<i>Professor of Psychology</i>
HENRY ALFRED TODD, Ph.D. ....	<i>Professor of Romance Philology</i>
GEORGE W. KIRCHWEY, A.B. ....	<i>Professor of Law</i>
GEORGE RICE CARPENTER, A.B. ....	<i>Professor of Rhetoric and English</i>
	<i>Composition</i>
JAMES RIGNALL WHEELER, Ph.D. ....	<i>Professor of Greek</i>
CALVIN THOMAS, A.M. . . . .	<i>Gebhard Professor of the Germanic Languages</i>
	<i>and Literatures</i>

Communications in regard to vacancies and recommendations of suitable candidates for the same should be addressed to the Chairman, Library, Columbia University, New York.

### University Appointment Committee

For college and university positions in Education, and for Administrative, Supervisory, and Teaching positions in Normal, Secondary, and Elementary Schools and Kindergartens.

JAMES E. RUSSELL, Ph.D.....	(Chairman)
	<i>Dean of Teachers College</i>
SAMUEL T. DUTTON, A.M.....	<i>Professor of School Administration</i>
JAMES F. KEMP, E.M.....	<i>Professor of Geology</i>
FRANK M. McMURRY, Ph.D.....	<i>Professor of Elementary Education</i>
DAVID EUGENE SMITH, Ph.D.....	<i>Professor of Mathematics</i>
WILLIAM B. TRENT, LL.D.....	<i>Professor of English Literature</i>

Communications should be addressed to the Chairman of the Committee, or to its secretary, Miss I. L. Pratt, Teachers College, Columbia University, New York.

### FELLOWSHIPS, SCHOLARSHIPS, AND OTHER PROVISION FOR THE ASSISTANCE AND REWARD OF STUDENTS

NOTE.—Unless otherwise provided, all stipends of Fellows and Scholars shall be paid in equal semi-annual instalments on the last Saturday in October and the third Saturday in February of each year.

Fellows and Scholars are required to pay all fees for matriculation, tuition, graduation, and for the use of the Gymnasium.

As these fellowships are awarded as honors, those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument may do so and still have their names retained on the list of Fellows.

### General Fellowship Regulations

No Fellow shall be allowed to accept remunerative employment except by permission of the President, and the acceptance of any such employment, without such permission, shall operate to vacate the fellowship.

All Fellows, except as hereinbefore provided, shall be required to pursue their studies during the term of their fellowship at the University, unless permission be granted by the President to study elsewhere. They are required to report themselves as in residence to the Registrar on or before the second Wednesday in October and February of the year of their incumbency, in 1902-03, October 8 and February 11.

In order that all documents, submitted in support of a fellowship, may be referred to the proper authorities when they reach the University, the envelopes or packages containing such should be distinctly marked, "Submitted by ——— in support of a fellowship in Columbia University."

All Fellows shall be governed by such rules and regulations, not inconsistent with the statutes, as may be prescribed by the Council.

### University Fellowships

Eighteen fellowships, of the value of \$650 each, known as "University Fellowships," are awarded by the Council to those applicants who give evidence of special fitness to pursue courses of higher study and original investigation, the competition to be open to graduates of all colleges and scientific schools. Vacancies occurring in any such fellowships shall be filled in the same manner in which original appointments are made.

Additional University Fellows may be appointed in cases where the original appointee waives the emolument of the fellowship while accepting the honor of the appointment, and in cases where a University Fellow desires reappointment without emolument.

Application should be made prior to March 1, in writing, on blanks that will be furnished for the purpose, and addressed to the President of Columbia University. Applications received later than March 1 may fail of consideration. The term of the fellowship is one year dating from July 1. Residence should begin October 1.

The candidate must give evidence:

(a) of a liberal education, such as a diploma already granted, or about to be received from a college or scientific school of good repute;

(b) of decided fitness for a special line of study, such as an example of some scientific or literary work already performed;

(c) of upright character, such as a testimonial from some instructor.

Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, which course shall be such as to lead to the degree of Doctor of Philosophy. He will be expected to devote his time to the prosecution of special studies under the direction of the head of the department to which he belongs, and before the close of the academic year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method. He must reside in New York or vicinity during the academic year.

No holder of a fellowship will be permitted to pursue a professional or technical course of study during his term. With the written approval of the President, but not otherwise, he may give instruction or assistance in any department of the University.

A Fellow may be reappointed at the end of a year for reasons of weight. No Fellow may be reappointed for more than two terms of one year each.

### Tyndall Fellowship

A fellowship known as the "John Tyndall Fellowship for the Encouragement of Research in Physics" was endowed by John Tyndall, LL.D., Professor of Natural History in the Royal Institution of Great Britain, November 2, 1885, by a gift of \$10,945.50 in trust, to apply the income in supporting or assisting "one or more American pupils who may have shown decided talents in physics, and preferably

such as shall express the determination to devote their lives to the advancement of theoretic science and original investigations in that department of learning." This fellowship is awarded to some suitable person, who is either a graduate of or a student in the University, but not necessarily a candidate for a degree. Such Fellow shall be appointed by the Council upon the recommendation of the head of the department of Physics. Such appointments shall always be for the term of one year only, but the Fellow for the time being shall be eligible for appointment from year to year, upon like recommendation. The Fellow so appointed shall be entitled to receive during his term of office the net income of the capital sum constituting the endowment; and the Trustees guarantee that such net income will amount to at least \$648 a year, being six per cent. upon \$10,800, the fund presented to the University by Professor Tyndall.

### **Barnard Fellowship**

A fellowship known as the "Barnard Fellowship for Encouraging Scientific Research" was endowed by the bequest of \$10,000 left by President F. A. P. Barnard for the purpose of encouraging scientific research. The fellowship is of the annual value of \$500, and is awarded to a graduate of the College or of the Schools of Applied Science or Pure Science, who has evinced decided aptness for physical investigation and who may be disposed to devote himself to such investigation for some years continuously. Such Fellow shall be appointed by the Council upon the joint recommendation of the faculties of the College, Applied Science, and Pure Science. Such appointment shall be for the term of one year only, but the Fellow, for the time being, shall be eligible to reappointment from year to year upon like joint recommendation. Nominations should be made to the President on or before April 1.

### **Duties of Tyndall and Barnard Fellows**

It is the duty of a Barnard or John Tyndall Fellow to devote himself faithfully to the investigation of some subject in physical science at this University, or at some other in this country or abroad, under the supervision of some known physicist approved by the President and the head of the department of Physics. He shall make a report quarterly to the President, giving an account of the work in which he has been engaged during the three months preceding; which report shall be certified by the physicist superintending and directing him. In case of failure faithfully to fulfil the obligations imposed upon him, such Fellow shall forfeit all privileges and emoluments conferred upon him by his appointment to the fellowship, and the Council may at any time declare the fellowship to be vacant.

### **Drisler Fellowship**

A fellowship known as the "Henry Drisler Fellowship in Classical Philology," of the annual value of \$650, was established in 1894 in

commemoration of the semi-centennial in the service of the University of Henry Drisler, LL.D., of the Class of '39, who held in the University the chairs of both Latin and Greek.

Applicants for this fellowship must be Bachelors of Arts of this University, or some other college or university of equivalent standing, and must have pursued the study of Greek and Latin throughout their undergraduate course. They must present testimonials from their instructors in Greek and Latin as to their zeal and success in the study of these languages, and must give evidence of fitness for a wider and more profound study of the same, and for independent research. Such evidence may be shown by the results of a special examination, or by the production of an essay or published treatise in some department of classical study. Applicants must also have a sufficient knowledge of French and German to use those languages readily in the prosecution of their studies, and must present a certificate of good moral character.

The appointment to the fellowship will be made by the University Council on the joint recommendation of the professors of Greek and Latin. The appointment shall be for one year, and the holder, for reasons of weight, may be reappointed; but the fellowship shall not be held by the same person for more than three years.

The Fellow must study at this University under the direction of the professors of Greek and Latin, unless permitted by the Council to spend a year in some foreign university, or in the American School of Classical Studies at Athens.

### **Carl Schurz Fellowship**

The "Carl Schurz Fellowship for the Study of the German Language and Literature" is open to graduates of all colleges and scientific schools in good standing in this country and abroad, and will be awarded in every alternate year beginning July 1, 1902, by the University Council, upon the recommendation of the professors of the department of Germanic Languages and Literatures. The appointment shall be held, subject to such regulations as this Council may from time to time establish, for the term of one year. The Fellow so appointed shall be entitled to receive the net income of the capital sum of ten thousand dollars, constituting the endowment contributed by the German-American citizens of New York, in commemoration of the seventieth birthday of Carl Schurz, accruing during a period of two years preceding the appointment, and proportionately for any part of the term. The appointment may be renewed for reasons of weight for a further term of one year, but reappointment shall not entitle the Fellow to any additional stipend.

Candidates for this fellowship must present testimonials as to their zeal and success in the study of German, and must give evidence of their fitness for a wider and more profound study of the language and

literature and for independent research. Such fitness may be shown by an essay or published treatise. Candidates must also have a sufficient knowledge of Latin and French to use these languages readily in the prosecution of their studies, and must present a certificate of good moral character. The holder must study at Columbia University under the direction of the department of Germanic Languages and Literatures, unless permitted by the Council to continue his studies at some German university.

#### Mosenthal Fellowship

A fellowship known as the "Joseph Mosenthal Fellowship in Music" was established in 1898 in memory of the late Joseph Mosenthal, of New York City, and is designed to aid talented students of musical composition in the study of their art either here or abroad.

It is now awarded in every even-numbered year, and its value at each award is \$600.

The appointment to the fellowship will be made by the University Council on the recommendation of the Professor of Music.

The Fellow must pursue his or her studies either at Columbia University or under the direction of some master approved by the President and Professor of Music. Applicants are required to have a thorough knowledge of harmony and the elements of counterpoint. This fellowship, which is open to both men and women, was bestowed for the first time at Commencement, 1899. For the award of 1902, applications should be made prior to March 1, in writing, addressed to the President of Columbia University, on blanks provided for the purpose, which will be sent upon request.

#### Proudfit Fellowship in Letters

A fellowship known as the "Alexander Moncrief Proudfit Fellowship in Letters," for the encouragement of the study of English Literature, founded by the bequest of Alexander Moncrief Proudfit of the Class of '92, for the encouragement of the study of English Literature, is open to all persons who, being the sons of native-born American parents, shall have taken the degree of Bachelor of Arts after a three years' residence in Columbia College, and who shall, while enjoying such fellowship, remain unmarried. Such Fellow shall be appointed by the University Council upon the joint recommendation of the professors in the department of English. Such appointment shall be for the term of one year, and may be renewed, for reasons of weight, for two terms of one year each, and no more. The Fellow so appointed shall be entitled to receive during his incumbency the net income of the capital sum constituting the endowment of such fellowship, to be paid upon the certificate of the President. He shall carry on his studies and research at Columbia University, or elsewhere, under the direction of the professors in the department named.



### Class of '70 Fellowship

There is a fellowship known as the "Class of '70 Fellowship," of the annual value of \$500, which, after the expiration of the term of the present incumbent, shall be filled by the Council, and shall be subject to such rules and regulations, not inconsistent with the Statutes, as may be prescribed by the Council.

### Annual Fellowships

The Treasurer may receive gifts of money for fellowships to run for one year or more, provided that no fellowship shall be created for less than \$500 per annum. Such fellowship shall be filled by the University Council, and shall be subject to such rules and regulations, not inconsistent with the Statutes, as may be prescribed by the Council.

### University Scholarships

Thirty University scholarships are awarded annually to students under the Faculties of Political Science, Philosophy, and Pure Science. These scholarships are awarded under the following regulations, prepared by the authority of the University Council and with its approval:

1. The University scholarships are open to all graduates of colleges and scientific schools whose course of study has been such as to entitle them to be enrolled at Columbia as candidates for a university degree.

2. These scholarships are tenable for one academic year, with a possibility of renewal for one year longer. They are of an annual value of \$150 each.

3. Applications for University scholarships should be made in writing, on blanks that will be furnished for the purpose, and addressed to the President of Columbia University. Applications must be filed not later than May 1. Should an unsuccessful applicant for a fellowship apply for a scholarship, the only information required from him will be that contained in the formal application for the fellowship.

4. The University scholarships will be awarded by the University Council at its regular meeting in May. The award will be made after applications have been examined and recommendations made by the Committee on University Scholarships. In making these recommendations the Committee will give preference to those candidates for University fellowships who have failed of appointment by the University Council after having been recommended for the same by any faculty or department.

5. University Scholars will be required to enroll themselves as candidates for a degree and to pursue a regular course of study leading thereto.

6. In case any one of said scholarships is not awarded in any year, or in case any scholarship shall become vacant otherwise than by the graduation of the incumbent, an additional Scholar may be appointed to fill such vacancy. The recipient of any such scholarship may, with

the consent of the President, assign the income thereof to any properly qualified candidate without waiving his right to be designated as a University Scholar.

### **President's University Scholarships**

In addition to the University scholarships, there are eight scholarships, each of the annual value of \$150, known as the "President's University Scholarships." Such scholarships are for the term of one year, are filled by the University Council, and are governed in all respects by the regulations attached to the University scholarships established by the preceding section, and by such further regulations as may from time to time be hereafter adopted by the Trustees. The holders of such scholarships may be reappointed upon the expiration of their terms upon such conditions as may be prescribed in the regulations.

### **University Scholarships for Women**

Four University scholarships known as the "Curtis University Scholarships," will be awarded annually to women students under the Faculties of Philosophy, Political Science, and Pure Science. These scholarships are awarded under the same regulations as those governing the University scholarships.

### **Pulitzer Scholarships**

Through the generosity of Mr. Joseph Pulitzer, a number of male graduates of the public high schools of Manhattan and the Bronx are granted scholarships, not to exceed forty at any time. The scholarships are awarded by competitive examination, and the winners are permitted to hold their scholarships for a period of four years in the College or in any department of the University except the Medical School. The scholarship will be withdrawn if at any time the holder fails to maintain a satisfactory standard in his academic work. During the term of four years the student receives from Mr. Pulitzer the sum of \$250 a year over and above the cost of his tuition. Full information regarding the conditions under which these scholarships are awarded will be furnished, upon application, by the Secretary of the University.

### **Annual Scholarships**

The Treasurer may receive gifts of money for scholarships for one or more years, provided that no such scholarship shall be for a less sum than the annual tuition fee of the College or of the school in which it is provided. Such scholarships shall be filled by the Faculty under whose care they properly come, and the Scholars holding them shall pay all fees.

**National Society of the Sons of the American Revolution Medal**

The National Society of the Sons of the American Revolution offers a silver medal under the following regulations:

1. Competition shall be open to members of the senior class in the College, and to first-year students, not graduates of the College, studying under any of the faculties of the University.

2. Each essay must contain not less than 1600 and not more than 2000 words and shall be upon the subject: "The Principles Fought for in the War of the Revolution."

3. A typewritten copy of each essay must be presented to the President not later than May 1.

4. The Committee of Award shall consist of the professors giving instruction in American History.

5. The prize shall in no case be awarded to an essay defective in English composition.

The award, if made, will be announced by the President at Commencement.

A similar tender has been made to the principal colleges of the country, and the essays receiving the silver medals will be submitted to a committee of the National Society in competition for a gold medal to be awarded to the writer of the essay deemed most meritorious.

**Bunner Medal**

The H. C. Bunner Gold Medal, provided for by the interest upon a fund of one thousand dollars, established in November, 1896, by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. Essays must be submitted to the President on or before May 1. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in on May 1, 1902, is "Abraham Lincoln as a Man of Letters"; for 1903, "Literary Influences that Affected Hawthorne and Poe"; for 1904, "Style in the American State Papers of the Eighteenth Century."

**Barnard Medal**

A gold medal established by the provisions of the will of President Barnard and endowed by him, known as the "Barnard Medal for Meritorious Service to Science," is awarded at Commencement at the close of every quinquennial period dating from the 17th day of July, 1889, to such person, if any, whether a citizen of the United States or any other country, as shall within the five years next preceding have made such discovery in physical or astronomical science, or such novel application of science to purposes beneficial to the human race, as in the judgment of the National Academy of Sciences of the United States shall be esteemed most worthy of such honor.

*Award of 1895*

LORD RAYLEIGH, F.R.S. PROFESSOR WILLIAM RAMSAY, F.R.S.

*Award of 1900*

PROFESSOR WILHELM CONRAD VON RÖNTGEN

**Loubat Prizes**

Mr. Joseph F. Loubat has established two prizes, a first prize of \$1000, and a second of \$400, for the best works published in the English language upon the history, geography, archæology, ethnology, philology, or numismatics of North America. The competition for these prizes is open, under the deed of gift, to all persons, whether connected with Columbia University or not, and whether citizens of the United States or of any other country. No treatises shall be eligible for the purposes of the competition except such as relate to the topics involving antiquarian research, or that refer to events prior to 1776. In order to ensure consideration of their works, authors are invited to send copies to the President of Columbia University not later than April 1 of the year in which the prize is to be awarded; but the competition will not be restricted to works thus submitted. Copies of the regulations adopted by the Trustees can be obtained from the Secretary of the University.

Mr. Loubat has provided a permanent endowment for these prizes which will make it possible to award them at least every five years. It has been decided to divide the above list of subjects into two groups, in which the award will be made alternately. These groups consist, respectively, of history, geography, and numismatics; and of archæology, ethnology, and philology. It has also been decided that, hereafter, Mr. Loubat's foundation shall be employed to stimulate research and not simply to reward the authors of meritorious works published without reference to these prizes. That is, the University will call for the investigation of certain questions and the publication of the results, and the best works produced in answer to this call, if of sufficient value, will receive the prizes. The awards to be made in 1903 shall be conferred for works relative to subjects in the first group. One or more special topics of investigation may be recommended, and the awards limited primarily to works upon such topic or topics. But if no works upon the topics suggested seem worthy of an award, the prizes will be adjudged to the best works falling within the general group of subjects designated for the period.

It is hoped that Mr. Loubat's generous foundation may serve to encourage American research in a field that is peculiarly our own, but in which much of the best work has hitherto been done by strangers.

For names of the Committee of Award for 1903, and for further details, address the Secretary of the University.

*Award of 1893*

First Prize, HENRY ADAMS, for his "History of the United States of America during the Administrations of Jefferson and Madison."

Second Prize, A. F. BANDELIER, for his "Report of Investigations among the Indians of the Southwestern States."

*Award of 1898*

First Prize, WILLIAM HENRY HOLMES, for his work entitled "Stone Implements of the Potomac—Chesapeake Tidewater Province."

Second Prize, FRANZ BOAS, Ph.D., for his monograph entitled "The Social Organization and the Secret Societies of the Kwakiutl Indians."

**Grant Squires Prize**

A prize known as the "Grant Squires Prize," consisting of the income to be derived from the fund heretofore established by Grant Squires, A.B. '85, LL.B. '87, is awarded at Commencement at the close of every quinquennial period, dating from July 1, 1895, to such graduate conducting an original investigation of a sociological character as shall be adjudged most worthy by a Committee of Award, consisting of the President, the Professor of Sociology, and one of the professors of Political Economy, appointed by the Faculty of Political Science. Such award shall be deemed to be a recognition of scientific ability and achievement, as well as an encouragement of research.

**Scholarships and Prizes in the College**

Seventy-two scholarships, of the annual value of \$150 each, are offered in the College. These scholarships are intended to be academic honors, and the holders are divided into three groups. The first group contains only those whose work entitles them to high academic distinction. The second consists of students of marked excellence who have not attained a position in the first group. The third comprises meritorious students to whom scholarships have been awarded on grounds of special claim. The names of holders of scholarships in groups 1 and 2 are published in the University catalogue.

The enjoyment of a scholarship for one year does not constitute a title to a second nomination. Should two scholarships be assigned to the same student in one year, he must at once make choice as to which he will retain. No student who has incurred serious academic censure in the course of the year will be considered as a candidate, nor any student who obtains leave of absence for the year in which the scholarship is payable. The payment of one or both instalments of the scholarships may be withheld if a student proves undeserving.

**Section I.** Scholarships awarded to Freshmen on the basis of competitive entrance examinations, tenable for one year. The Committee on Admissions awards these scholarships in the order given annually to those qualified competitors who pass the best entrance examinations in subjects aggregating the fifteen points requisite for admission, at the University in June of the entering year. A grade below *C* in any department will forfeit the scholarship. No applications need be filed by candidates for these scholarships. Reappoint-

ment may be made by the Committee on Scholarships under certain conditions for succeeding years.

Awarded not later than July 1:

#### Competitive

Alumni Competitive Scholarships.....	4
Founded by the Trustees in 1890, one awarded annually.	
Hewitt and Harper Scholarships (2 each).....	4
Endowed by the gift of Abram S. Hewitt, LL.D., Class of '42, and by the bequest of Joseph W. Harper, A.M., Class of '48. One scholarship is open annually for competition to graduates of New York City high schools.	
Brooklyn Scholarships.....	12
Founded by the Trustees in 1895, in recognition of President Low's gift of a memorial building for the University Library. Three of these scholarships are open for competition annually to residents of Brooklyn who have received their training either in the public or the private schools of that borough.	

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**Section II.** Scholarships awarded to applicants by the Committee on Scholarships:

#### Faculty, Beck, Campbell, and Class of '48

Six Faculty scholarships established by the Trustees for award by the Faculty to students whose record for ability and scholarship, obtained either before or after matriculation, gives evidence of special fitness for the course of study which they propose to pursue, and who need pecuniary aid to obtain an education. Open to students of any class...	6
Beck Scholarship.....	1
Established in recognition of the liberality of Charles Bathgate Beck, LL.B., Class of '77. Awarded by the Faculty of the College in the same manner and subject to the same conditions as the Faculty scholarships.	
Campbell Scholarships.....	2
In memory of Robert B. Campbell of the Class of '44, and Henry P. Campbell of the Class of '47, established by Miss Maria L. Campbell and Miss Catharine B. Campbell. Awarded by the Faculty of the College in the same manner and subject to the same conditions as the Faculty scholarships.	
Class of 1848 Scholarships.....	2
Established through the liberality of a member of the Class of 1848. Awarded in the same manner and subject to the same conditions as the Faculty scholarships.	

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Carried forward..... 31

Brought forward..... 31

Endowed

Schermerhorn Scholarships.....	5
Endowed by John Jones Schermerhorn, A.B., of the Class of '25. Open to Freshmen only.	
Moffat Scholarships.....	2
Endowed by William B. Moffat, A.B., of the Class of '38; M.D., '42. Open to Freshmen only.	
Stuart Scholarships.....	2
Endowed in memory of Sidney Barculo Stuart, Class of '80, and Eugene Talman Stuart, Class of '81, by their grandmother, Cornelia A. Atwill. Open to Freshmen only.	
Alumni Association Scholarships.....	4
Established by the Trustees in recognition of the interest that the Alumni Association has always shown in the affairs of the College. Open to Freshmen only.	
Society for Promoting Religion and Learning Scholarships....	8
Founded by the Society for Promoting Religion and Learning, and awarded upon the nomination of that Society. Two students in each class.	
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Benefactors

Morgan Scholarships.....	5
Vanderbilt Scholarships.....	5
A. A. Low Scholarships.....	3
Cutting Scholarships.....	2
Clark Scholarships.....	2
Sloan Scholarship.....	1
Parish Scholarship.....	1
Schiff Scholarship.....	1
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Established by the Trustees in 1899 in recognition of the liberal gifts for the purchase of the site on Morningside Heights received from J. Pierpont Morgan, Cornelius Vanderbilt, A. A. Low, R. Fulton Cutting, Alfred Corning Clark, Samuel Sloan, Henry Parish, Jacob H. Schiff, and others, designated collectively as "Benefactors Scholarships," of which the above have been assigned to the College. Open to students who have been not less than one year in the College.

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Scholarships under Section II are awarded under the following conditions:

Applications for scholarships must be made to the Committee, on blanks provided for the purpose, that may be obtained of the Secretary of the University.

The term of all scholarships is one year only. Should a renewal be

desired by any scholar he must make formal application for the same as in the first instance.

Students not in need of aid cannot be considered as applicants, nor will scholarships be assigned to candidates who through physical, mental, or moral weakness give little promise of future usefulness. Scholarships falling vacant may be filled at the discretion of the Committee.

#### Summary

A—*Scholarships Awarded to Students who have been in Residence at least One Year:* Twenty Benefactors Scholarships may be assigned each year to students who have been in residence for at least one year. The award is, in groups 1 and 2, based on the rank attained by the candidates in the work of the previous year.

Applications should be filed with the Committee not later than May 1; the awards will be made not later than July 1.

Students who have won competitive scholarships in their freshman year (*i. e.*, three Alumni Scholars, nine Brooklyn Scholars, and three Hewitt or Harper Scholars, see Section I) may also be reappointed from year to year by the Committee, under certain conditions.

B—*Scholarships Awarded to Students in their First Year of Residence:*

The five Schermerhorn, two Moffat, two Stuart, and four Alumni Association Scholarships are assigned to candidates entering the College, either before or after entrance. To secure such an award before entrance the candidate must be strongly recommended by the college, academy, or school with which he has been connected, and must have passed satisfactory entrance examinations. To secure such an award after entrance, he must have similar recommendations, have passed satisfactory entrance examinations, and, in general, have shown marked proficiency or promise in his college work.

For award at entrance, applications should be filed not later than May 1; awards will be made not later than July 1. For award after entrance, applications should be filed not later than November 15; in general, awards will be made not later than December 1.

C—*Faculty Scholarships*, six in number, the Beck Scholarship, the Campbell Scholarships, and the Class of '48 Scholarships, may be awarded to students in their first year of residence, or to students who have been in residence at least one year, at the discretion of the Committee on Scholarships. In their award, the general regulations applicable to the group in which they are awarded must be observed.

#### Prize of the Alumni Association

A prize of fifty dollars in money or its equivalent, at the option of the receiver, established by the Association of the Alumni of Columbia



College, was first awarded at Commencement in June, 1858. It is given "to the most faithful and deserving student of the graduating class."

Three names are selected by the Faculty and submitted to the class, who from these three designate one to receive the prize. Should the class at any time fail to make the selection, and give notice thereof to the President of the University at least ten days prior to the day appointed for Commencement, the selection of the student to receive the prize may be made by the Faculty.

#### Chanler Historical Prize

In 1877, J. Winthrop Chanler, A.B. '47, bequeathed "to the Trustees of Columbia College in the City of New York the sum of \$1000, to be invested and kept invested, and the income thereof to be given annually, on Commencement Day, to the undergraduate member of the senior class of said College who shall be the author of the best original manuscript essay in English prose on the history of civil government in America, or some other historical subject, the same to be determined by the judgment and decision of the Faculty of said College." The bequest became available in 1879.

The competitive essays must be handed to the President on or before May 1.

#### General Theological Seminary Prizes

Regulations as to the Seminary prizes adopted by the Protestant Episcopal Society for Promoting Religion and Learning in the State of New York, at a stated meeting held on April 25, 1900:

1. Notice shall be given every year of the conditions of the prizes under the old regulations (see Announcement of the College for 1900-1901, page 72), and applications invited. Wherever the conditions of the preceding competition show that one or both of the prizes have not been taken for lack of applicants, notice shall at the same time be given of the competition for the prize or prizes thus open under the following new regulations:

(a) The Society's Greek Seminary Prize of \$30 shall be competed for among such members of the graduating class of Columbia College as shall be candidates for the General Theological Seminary of the Protestant Episcopal Church, and who have taken Greek for not less than two years during their College course; the examination for the prize to be held publicly and separate from the general examination, and to be either oral or in writing as may be determined by the Dean of the General Theological Seminary and the Jay Professor of Greek in Columbia University; such examination to be on, first, such portion of the New Testament in Greek as may be designated by the Faculty of the General Theological Seminary and the Jay Professor of Greek; second, on some part of the writings of one of the Greek Fathers to be designated in like manner; the award to be made by a representative

of the General Theological Seminary and the Jay Professor of Greek in Columbia University.

(b) The Society's English Prize of \$20 shall be competed for by members of the graduating class of Columbia College who are candidates for the General Theological Seminary and who take or have taken the courses designated in the Announcement of Columbia College as English 1 and 2, or their equivalent; the competition to consist in their production of an essay of the ordinary length of a pulpit discourse; the subjects for such essay to be announced on or before June 1st, and the essays to be handed in to the President of Columbia University on or before May 1st of the following year; the award to be made by a representative of the General Theological Seminary and the Professor of Rhetoric and English Composition, or his successor, by whatever title designated in Columbia College, on the basis of the general ability and soundness of the essay, its logical and demonstrative form, and its style; the essay to be typewritten and to follow the same regulations as to form as that prescribed for graduating theses of the senior class in Columbia College.

#### Scholarship in the General Theological Seminary

The scholarship in the General Theological Seminary of the Protestant Episcopal Church (heretofore placed at the disposal of the Trustees of Columbia University by the Society for Promoting Religion and Learning in the State of New York) is awarded upon the following conditions, to wit:

All candidates shall comply with the requirements for admission to the General Theological Seminary as candidates for the ministry of the Protestant Episcopal Church, and must have taken the degree of Bachelor of Arts and have graduated with honors.

All candidates shall report themselves to the Educational Committee of such Society at least three months previous to the examination to be held by the Faculty for the purpose of awarding such scholarship.

#### Scholarships and Prizes in the School of Law

Twenty-one scholarships of the annual value of \$150 each are available annually for award to meritorious students in the School of Law standing in need of pecuniary aid as follows:

*Benefactors Scholarships.*—Eight Morgan and eight Vanderbilt Scholarships, known as Benefactors Scholarships, may be awarded to students who have been in the school for at least one year and whose record for ability and scholarship gives evidence of special fitness for the work of the school.

*Faculty Scholarships.*—Four Faculty Scholarships of the annual value of \$150 each may be awarded to members of any class who are college graduates and whose record for ability and scholarship, obtained either

before or after matriculation, gives evidence of special fitness for the work of the school.

*Beck Prize Scholarship.*—A scholarship, known as the "Charles Bathgate Beck Prize Scholarship," is awarded annually to the member of the first-year class in the Law School who, having given evidence of special fitness of ability and scholarship, and having reported himself in writing to the Dean as a candidate for this scholarship, shall pass the best examination in the subjects of the Law School course relating to Real Estate Law. The holder of such scholarship shall, provided he remains a member of the school, receive one year's income of the prize fund established by the will of Charles Bathgate Beck in equal semi-annual instalments, during the two years following the award. In the event of two or more students passing examinations of equal merit, the income of the fund may be subdivided.

The scholarships will be awarded by the Faculty at its meeting in June, immediately preceding Commencement. Scholarships not allotted at the June meeting, or becoming vacant, may be filled by the Faculty at its discretion.

Scholarships will be awarded only to applicants intending to complete the course.

Applications should be made in writing, on blanks which will be furnished for the purpose by the Secretary, and should be addressed to the Dean of the School. Applications should be made not later than May 1.

#### **Fellowships, Scholarships, and Prizes in the College of Physicians and Surgeons**

There are no scholarships open to candidates for the degree of M.D.

##### **Fellowships of the Alumni Association**

In June, 1891, the Trustees, at the request of the Alumni Association of the College of Physicians and Surgeons, established three fellowships to be known as the "Fellowships of the Alumni Association of the College of Physicians and Surgeons," the provision for which is made annually by the Association.

These fellowships are open to graduates of the College of Physicians and Surgeons who have shown special aptitude for scientific research in the departments of anatomy, physiology, or pathology. They are held for a period of two years, and have an annual value of \$500 each. The appointments to these fellowships are made by the Executive Committee of the Alumni Association from candidates presented to them by the Professor of Anatomy, the Professor of Physiology, and the Professor of Pathology.

The persons appointed to these fellowships are expected to devote themselves to scientific research in the department which they may elect, in this country, either in the schools of Columbia University,

where they enjoy free tuition and the privileges of the laboratories, or in other institutions at their own expense. At the end of two years the holders of these fellowships are expected to present to the Association a thesis containing evidence of independent or original work in their special department.

#### Proudfit Fellowship in Medicine

A fellowship known as the "Maria McLean Proudfit Fellowship," founded by the bequest of Alexander Moncrief Proudfit, of the Class of '92, for the encouragement of advanced studies in medicine, is open to all persons who, being the sons of native-born American parents, shall pursue advanced studies in internal medicine under the direction of the Medical Faculty of the University, and who shall, while enjoying such fellowship, remain unmarried. Such Fellow shall be a graduate in medicine and shall be appointed by the University Council upon the recommendation of the Faculty of Medicine. Such appointment shall be made every four years, beginning in 1904, upon terms to be designated by the Faculty. A vacancy may be filled for any unexpired term. The Fellow so appointed shall be entitled to receive, during his incumbency, the net income of the capital sum constituting the endowment of such fellowship. He shall carry on his studies and research at Columbia University, or elsewhere, under the direction of the Faculty of Medicine.

#### Alonzo Clark Scholarship

By the will of the late Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, and Professor of Pathology and Practical Medicine, it has been placed in the power of the Medical Faculty to bestow a scholarship, with an income of about \$700 a year, for the purpose of promoting the discovery of new facts in medical science.

#### Harsen Prizes for Clinical Reports

Three annual prizes, founded in 1859 by the late Jacob Harsen, M.D., who was graduated from the College in 1825 and from the College of Physicians and Surgeons in 1829, are offered for the three best reports, in writing, by students of the Medical School, of the clinical instruction given at the New York Hospital during any four consecutive months of the year which ends on Commencement Day.

These reports must embrace the clinical teaching of both the visiting physician and the visiting surgeon on duty.

Each report must be designated by a device or motto, and must be accompanied by a sealed envelope, bearing the same device or motto, and containing the name and address of the author.

The prizes are as follows:

A first prize of \$150; a second prize of \$75; a third prize of \$25.

A "Harsen Prize Medal" and a diploma are given with each prize.

## Harsen Prizes for Proficiency at Examination

In consequence of the great increase in value of the Harsen Prize Fund, in addition to the three prizes above mentioned, there are awarded three Harsen prizes for proficiency at examination, viz.:

A first prize of \$500; a second prize of \$300; a third prize of \$200. The award of these prizes is made as follows:

The ten members of each graduating class who, at their examination for the degree of Doctor of Medicine, have shown the highest proficiency in all the branches combined, receive each a diploma of "Examination Honors" and are entitled to take part in special competitive examinations, the three most meritorious competitors at which receive the first, second, and third prizes, respectively.

The competitive examinations consist:

1. Of an examination in writing, covering *all the branches* of medical teaching.

2. Of an examination upon the cadaver in *practical anatomy*, conducted by the Professor of Anatomy.

3. Of practical examinations in *clinical medicine* and *clinical surgery*, conducted at the hospitals by the Professors of Medicine and Surgery, respectively.

The relative merits of the competitors are decided, and the award of the prizes made, by a committee of three judges, consisting of the Dean of the College of Physicians and Surgeons, the President of the Association of the Alumni of the same, and a resident alumnus selected by them.

## Alumni Association Prize

The Alumni Association Prize is a biennial prize of \$500 open for competition to the alumni of the College of Physicians and Surgeons. It is awarded for the best medical essay submitted upon any subject the writer may select, and is open to competition in alternate years with the Cartwright Prize.

If no one of the competing essays be deemed sufficiently meritorious, the prize is not awarded.

An essay in order to be held worthy of the prize must contain the result of original investigation made by the writer.

This prize is not awarded to any essay which is the work of more than one author, or which is at the same time submitted for another prize. Each competitor is required to send with his essay to the Prize Committee a statement that these requirements have been complied with.

Essays in competition for the prize to be awarded at Commencement, 1904, must be sent to the Secretary of the Alumni Association of the College of Physicians and Surgeons on or before April 1, 1904.

Competing essays must each be marked with a device or motto, and accompanied by a sealed envelope, similarly marked, and containing the name and address of the author.

## Cartwright Prize of the Alumni Association

The Cartwright Prize was endowed by a bequest of \$10,000 left by Benjamin Cartwright, and consists of \$500, and is offered for competition in alternate years with the Alumni Association Prize.

It is awarded on the same terms as the latter, except that it is open to universal competition. Essays in competition for the prize to be awarded at Commencement, 1903, must be sent to the Secretary of the Alumni Association on or before April 1, 1903.

## Stevens Triennial Prize

The Stevens Triennial Prize was established by the late Alexander Hodgdon Stevens, M.D., formerly President of the College of Physicians and Surgeons, on the following plan:

The prize, awarded triennially, consists of the interest yielded by the principal fund during three years, and amounts to \$200.

The administration of the prize is entrusted to a commission, consisting of the Dean of the Medical Faculty ex-officio, the President of the Alumni Association of the College of Physicians and Surgeons ex-officio, and the Professor of Physiology ex-officio in the same institution.

The prize is awarded to no essay unless it is sufficiently meritorious and includes the results of original research by the writer upon the subject chosen.

The competing essays must be sent in to the Dean of the College of Physicians and Surgeons on or before the first day of January, 1903. Each essay must be designated by a device or motto, and must be accompanied by a sealed envelope, bearing the same device or motto, and containing the name and address of the author. The envelope belonging to the successful essay will be opened, and the name of the author announced, at the annual Commencement of the University in 1903.

The prize is open for universal competition.

## Joseph Mather Smith Prize

The fund for the Joseph Mather Smith Prize was given by the relatives, friends, and pupils of the late Dr. Smith, as a memorial of his services as Professor of Materia Medica in the College of Physicians and Surgeons from 1826 to 1866. Under the provisions of the trust an annual prize of \$100 is awarded for the best essay (if sufficiently meritorious) on the subject of the year, presented by an alumnus of the College of Physicians and Surgeons. The competing essays should be sent to the Dean of the Medical Faculty on or before March 10, each essay signed with a device or motto, and accompanied by a sealed envelope, inscribed with the same device or motto, and containing the name of the author. The envelope of the successful essayist will be

opened, and the prize awarded, at the annual Commencement next following.

### **Schools of Mines, Chemistry, Engineering, and Architecture**

#### **Columbia Fellowship**

A fellowship known as the "Columbia Fellowship in Architecture," established by the Trustees in recognition of the gifts of F. Augustus Schermerhorn, E.M. '68, to the department of Architecture, open to all graduates of the School of Architecture less than thirty years of age, is awarded under such rules and regulations as shall from time to time be determined by the President and the Professor of Architecture. Holders of such fellowships shall devote the income thereof to foreign study and travel in accordance with plans prepared by themselves and approved by the President and such professor, and shall upon return present a written report and exhibit drawings in the School of Architecture. Said fellowship shall be awarded in the spring of every even-numbered year. The incumbent shall receive the net income for two years from a fund of \$13,000, and payments thereof shall be made by the Treasurer, on the certificate of the Professor of Architecture, endorsed by the President.

#### **McKim Fellowships**

Two fellowships, known as the "McKim Fellowships in Architecture," endowed by gift of Charles F. McKim of \$20,000, are awarded upon like conditions and for like purposes as are specified in the foregoing section, but such fellowships shall be awarded in the spring of every uneven-numbered year, and payments thereof shall be made by the Treasurer, on the certificate of the Professor of Architecture, endorsed by the President.

#### **Perkins Fellowship**

A travelling fellowship, the net income from a fund of \$5700, from the bequest of the late Willard B. Perkins, will be awarded in the spring of every fourth year beginning with the year 1902. This fellowship is open to all graduates of the School of Architecture less than thirty years of age, and shall be awarded under such rules and regulations as shall from time to time be established by the President and the Professor of Architecture. Holders of this fellowship shall devote the income thereof to study and travel, in accordance with plans prepared by themselves and approved by the President and such professor, and shall upon return present a written report and exhibit drawings in the School of Architecture. Payments shall be made by the Treasurer on the certificate of the Professor of Architecture, endorsed by the President, in four equal instalments upon the usual quarter days.

#### **Benefactors Scholarships**

In recognition of the liberal gifts for the purchase of the site on Morningside Heights which have been received from J. Pierpont

Morgan, Cornelius Vanderbilt, D. Willis James, Morris K. Jesup, Samuel D. Babcock, Oswald Ottendorfer, and others, the Trustees have established a number of scholarships, known collectively as "Benefactors Scholarships," twenty-seven of which, of the annual value of \$200 each, are open to students in the Schools under the Faculty of Applied Science, as follows: seven Morgan, seven Vanderbilt, ten James, one Jesup, one Babcock, and one Ottendorfer. These scholarships may be awarded to students who have been in the University for at least one year, and whose record for ability and scholarship gives evidence of special fitness for the course of study which they propose to pursue.

#### Faculty Scholarships

In addition to the above, eight Faculty Scholarships of the annual value of \$200 each may be awarded to members of any class whose records for ability and scholarship, obtained either before or after matriculation, give evidence of special fitness for the course of study which they propose to pursue.

Applications for the above scholarships should be made in writing on blanks, which will be furnished for the purpose by the Registrar, and addressed to the Dean of the Faculty of Applied Science. Applications should be made not later than May 1, as any received later than this may fail to receive consideration.

The award of scholarships will be made not later than July 1 by the Committee on Admissions. Scholarships not allotted at this time, or becoming vacant, may be filled by the Committee at its discretion.

Scholarships granted in the first year of a student's connection with the University shall be for a half-year only, and shall be continued to those candidates only who have maintained a satisfactory academic standing during that period.

In awarding scholarships, preference will be given always to students of good academic standing and free from entrance conditions or other deficiencies. Scholarships will be awarded only to applicants who intend to complete one of the regular courses.

#### Lawrence Scholarship

Through the generosity of Mr. Benjamin B. Lawrence of the Class of 1878, Applied Science, a scholarship in Mining Engineering of the value of \$200 is available annually for a deserving student in the course in mining engineering.

#### Illig Medals

A bequest of \$2000 left by William C. Illig, E.M. '82, provides for the annual award at Commencement to the student or students in the graduating class of one of the Schools of Applied Science, who



shall, in the judgment of the Faculty, have merited the same by commendable proficiency in their regular studies.

### School of Political Science

#### Schiff Fellowship

The Schiff Fellowship in Political Science, the gift of Mr. Jacob H. Schiff, of the annual value of \$600, is open to graduates holding a first degree from any college or scientific school of good standing either in this country or in Europe. Appointment to the fellowship is made each year by the University Council upon the recommendation of the Faculty of Political Science, and the recommendation of this Faculty is based upon the nomination following: On or before April 1 of each academic year the Faculty of Political Science shall propose to Mr. Jacob H. Schiff, while living, the name of a suitable person for nomination by him. After Mr. Schiff's death, his oldest living male descendant bearing his family name is to enjoy the right to nominate in the same manner. Should the family name become extinct, the right of nomination is to inhere in the oldest direct descendant of Mr. Schiff, bearing any other name, who is a resident of the United States. Should no nomination be made by Mr. Schiff or his successor after proper notification by the Faculty of Political Science, the President of the University is to have the right to nominate. Should the recommendation made by the Faculty be unacceptable to the person having the right of nomination, the Faculty shall propose other names until a nomination is made.

#### George William Curtis Fellowship

A fellowship, known as the "George William Curtis Fellowship," open to graduates of all colleges and scientific schools in good standing in this country or abroad, will be awarded by the University Council upon the recommendation of the Faculty of Political Science in every third year, beginning July 1, 1901, and the appointment shall be held for the term of two years, subject to such regulations as the Council shall from time to time establish in accordance with the terms of the endowment. Any person holding such fellowship for the full term of two years shall be entitled to receive during his incumbency the net income of the endowment accruing during a period of three years, and proportionately for any part of the term.

Candidates for the fellowship shall submit an essay or address on the "Immediate Duty of the American Citizen," in addition to complying with the requirements of candidates for University fellowships.

The holder shall devote himself to the study of the science of government, with a special view to its application to the then existing condition of the United States or to the State or City of New York; and at

or before the conclusion of his second year he shall publish a monograph which shall be satisfactory to the Faculty of Political Science on some subject relating to such existing condition. In connection with this monograph he shall also prepare and publish a brief sketch of George William Curtis as a citizen and orator, showing that he has familiarized himself with the life and character of the man whose memory is to be perpetuated by the fellowship which he has enjoyed.

#### Bennett Prize

A prize of \$40, to be given on Commencement Day, has been established by Mr. James Gordon Bennett. The prize is awarded by the Faculty of Political Science for the best essay in English prose upon some subject of contemporaneous interest in the domestic or foreign policy of the United States, the subject for the present year being "The History and Policy of Shipping Subsidies." The competition is open to seniors in the College, whether regular or special students, and to all students, under any of the faculties of the University, who have not yet taken the baccalaureate degree in arts, letters, or philosophy, provided that they take courses amounting to six hours a week throughout the year in the School of Political Science. Essays must be submitted to the President on or before May 1. If no satisfactory essay is received no award will be made. No award will be made for any essay that is defective in English composition.

## SPECIAL FUNDS

The following funds have been given to the Trustees from time to time and are held by them for the purposes specified :

### GEBHARD FUND :

Bequest of Frederick Gebhard of \$20,000, for the endowment of a Professorship in the German Language and Literature. 1843.

### FUND OF THE SOCIETY FOR PROMOTING RELIGION AND LEARNING :

Gift (through Professor McVickar) of \$1000, for the endowment of two prizes. 1852.

" The Society's Greek Seminary Prize," and

" The Society's English Seminary Prize."

Statutes, Ch. XXIII, Sec. 4.

### SAMSON SIMSON FUND :

Bequest of Samson Simson, Class of 1800, of \$1000 applied to the endowment of a fund for the purchase of law books. 1857.

### HARSEN PRIZE FUND :

Bequest of Jacob Harsen, M.D., Class of 1825, of \$31,114.10, for the endowment of prizes to be awarded to students in the College of Physicians and Surgeons. 1859.

" Harsen Prizes."

Statutes, Ch. XXIII, Secs. 6, 7.

### MOFFAT SCHOLARSHIP FUND :

Bequest of William B. Moffat, M.D., Class of 1838, of \$2000, for the endowment of scholarships. 1862.

" Moffat Scholarships."

Statutes, Ch. XXII, Sec. 5.

### STEVENS PRIZE FUND :

Gift of Dr. A. H. Stevens, Professor of Surgery, 1860-1867, of \$1899.88, for the endowment of a prize. 1866.

" Stevens Prize."

Statutes, Ch. XXIII, Sec. 10.

### JOSEPH MATHER SMITH PRIZE FUND :

Subscription fund of \$2337.81, as a memorial of Dr. Smith, for the endowment of a prize in the College of Physicians and Surgeons. 1874.

" Joseph Mather Smith Prize."

Statutes, Ch. XXIII, Sec. 11.

### CHANLER PRIZE FUND :

Bequest of John Winthrop Chanler, Class of 1847, of \$1000, for the endowment of an essay prize. 1877.

" Chanler Historical Prize."

Statutes, Ch. XXIII, Sec. 5.

## SCHERMERHORN SCHOLARSHIP FUND :

Bequest of John Jones Schermerhorn, Class of 1825, of \$5000, for the endowment of scholarships. 1877.

"Schermerhorn Scholarships." Statutes, Ch. XXII, Sec. 6.

## JOHN MCKEON FUND :

Bequest of John McKeon, Class of 1825, of \$1000, applied to the endowment of a fund for the purchase of law books. 1885.

## TYNDALL FELLOWSHIP FUND :

Gift of John Tyndall, LL.D., Professor of Natural History in the Royal Institution of Great Britain, of \$10,945.50, for the endowment of a fellowship in Physics. 1885.

"John Tyndall Fellowship for the Encouragement of Research in Physics." Statutes, Ch. XXI, Sec. 3.

## ALONZO CLARK SCHOLARSHIP FUND :

Gift of \$14,000 as a memorial of Alonzo Clark, President of the College of Physicians and Surgeons, 1875-1884, for the endowment of a scholarship. 1887.

"Alonzo Clark Scholarship." Statutes, Ch. XXII, Sec. 8.

## MCKIM FUND :

Gift of Charles F. McKim of \$20,000, for the endowment of travelling fellowships in Architecture. 1889.

"McKim Fellowships." Statutes, Ch. XXI, Sec. 7.

## COLUMBIA FELLOWSHIP IN ARCHITECTURE FUND :

Gift of F. Augustus Schermerhorn, Class of 1868, of \$13,000, to the School of Architecture, applied to the endowment of a travelling fellowship in Architecture. 1889.

"Columbia Fellowship." Statutes, Ch. XXI, Sec. 6.

## BARNARD FUND FOR THE INCREASE OF THE LIBRARY :

Bequest by President Barnard of \$59,501.64, and augmented by a bequest by his widow, Margaret M. Barnard, of \$16,231.67, to endow a fund for the purchase of books, especially those relating to physical or astronomical science, and for the award of a medal for discovery in physics or astronomy. 1889.

"Barnard Medal for Meritorious Service to Science."

Statutes, Ch. XXIII, Sec. 1.

## BARNARD FELLOWSHIP FUND :

Bequest by President Barnard of \$10,000, for the endowment of a fellowship for encouraging scientific research. 1889.

"Barnard Fellowship for Encouraging Scientific Research."

Statutes, Ch. XXI, Sec. 4.

## DACOSTA FUND :

Bequest of Charles M. DaCosta, Class of 1855, Trustee 1886-1890, of \$100,000, has provided \$86,576.83, applied to the endowment of the DaCosta Professorship of Zoölogy and of \$20,000 used for fitting up the DaCosta Laboratory of Zoölogy. 1890.

## SLOANE MATERNITY HOSPITAL FUND :

Gift of William D. Sloane and Emily Thorn Vanderbilt Sloane, of \$250,-  
000, for the endowment of the Hospital. 1890.

## VANDERBILT CLINIC ENDOWMENT FUND :

Gift of Cornelius Vanderbilt, William K. Vanderbilt, Frederick W. Van-  
derbilt, and George W. Vanderbilt, of \$115,000, for the endowment of  
the Clinic. 1890.

## AVERY ARCHITECTURAL FUND :

Gift of Samuel P. Avery and Mary Ogden Avery of \$30,000, in memory  
of their deceased son, Henry Ogden Avery. The income to be applied  
to the purchase of books relating to architecture, decorations, and allied  
arts. 1890.

## MARGARET M. BARNARD FUND :

Bequest of Margaret M. Barnard (widow of President Barnard) of \$16,-  
231.67, to augment the fund established by President Barnard. 1892.

## LOUBAT FUND :

Gift of Joseph F. Loubat of \$7000, for the endowment of two prizes of  
\$1000 and \$400 to be awarded once in every five years for the best  
work printed and published in the English language on the history,  
geography, archæology, ethnology, philology, or numismatics of North  
America. 1892.

"Loubat Prizes."

Statutes, Ch. XXIII, Sec. 2.

## LOUBAT PRIZE FUND :

The accumulated income of the Loubat Fund, from which are awarded  
every five years prizes to the amount of \$1400, is kept as a separate  
fund.

## TROWBRIDGE FUND :

Gift of \$10,000, for the endowment of a fellowship in Engineering as a  
memorial of William P. Trowbridge, Ph.D., LL.D., Professor of Mining  
Engineering, 1877-1892. 1893.

"William Petit Trowbridge Fellowship in Engineering."

## PULITZER SCHOLARSHIP FUND :

Gift of Joseph Pulitzer of \$100,000, for the endowment of scholarships.

"Pulitzer Scholarships."

1893.

## BENNETT PRIZE FUND :

Gift of James Gordon Bennett of \$1000 for the endowment of an essay  
prize. 1893.

"Bennett Prize."

Statutes, Ch. XXIII, Sec. 14.

## HAMILTON FISH FUND :

Bequest of Hamilton Fish, LL.D., Class of 1827, Trustee, 1840-93, of  
\$50,000. In recognition of this gift, the "Hamilton Fish Chair of  
International Law and Diplomacy" was so named. 1893.

## HENRY DRISLER CLASSICAL FUND :

Gift of \$10,000, presented by Seth Low, LL.D., Class of 1870, in commemoration of the semi-centennial of Professor Drisler in the service of the College, for the endowment of a fund for the purchase of books and works of art for the Greek and Latin departments. 1894.

## GRANT SQUIRES FUND :

Gift of Grant Squires, Class of 1885, of \$1050, for the endowment of an essay prize. 1895.

"Grant Squires Prize." Statutes, Ch. XXIII, Sec. 15.

## STUART SCHOLARSHIP FUND :

Gift of Mrs. Cornelia A. Atwill of \$6000, for the endowment of the "Stuart Scholarships" in memory of her grandsons, Sidney Barculo Stuart, Class of 1880, and Eugene Talman Stuart, Class of 1881. 1896.

"Stuart Scholarships." Statutes, Ch. XXII, Sec. 13.

## ALEXANDER I. COTHEAL FUND FOR THE INCREASE OF THE LIBRARY :

Gift of Mrs. Samuel R. Lawrence and Mrs. James R. Swords of \$6000 in memory of their brother, Alexander I. Cotheal, for the endowment of a fund for the purchase of books in the Oriental languages, or relating to Oriental subjects.

## ROBERT CENTER FUND FOR INSTRUCTION IN MUSIC :

Gift of Mrs. Mary Elizabeth Ludlow of real estate and securities valued at \$178,046.50, for the endowment of a fund for instruction in music as a memorial of her son, Robert Center, applied to the maintenance of a professorship. 1896.

## STUDENTS' LOAN FUND :

Gift of Jacob H. Schiff of \$5000, for the aid of needy students. 1896.

## H. C. BUNNER PRIZE FUND :

Gift of \$1000, for the endowment of an essay prize. 1896.

"H. C. Bunner Medal." Statutes, Ch. XXIII, Sec. 16.

## ILLIG FUND :

Bequest of William C. Illig, Class of 1882 (S. of M.), of \$2000, for the endowment of scholarship medals. 1897.

"Illig Medals." Statutes, Ch. XXIII, Sec. 12.

## MOSENTHAL FELLOWSHIP FUND :

Gift of friends of the late Joseph Mosenthal of \$7500, to found a fellowship in Music. 1898.

"Mosenthal Fellowship." Statutes, Ch. XXI, Sec. 15.

## PERKINS FELLOWSHIP FUND :

Bequest of Willard B. Perkins, who died in 1897, of \$5700. The income to be expended every four years for a travelling fellowship in the Architectural department. The fellowship will be next awarded in June, 1902. 1898.

Statutes, Ch. XXI, Sec. 17.

## SCHIFF FELLOWSHIP FUND :

Gift of Jacob H. Schiff of \$15,000, to found a fellowship in the School of Political Science, to be annually awarded by the Faculty on the nomination of the donor or his eldest living male descendant. 1898.

Statutes, Ch. XXI, Sec. 16.

## SEIDL FUND :

The proceed amountings, to \$12,000, of a memorial performance held at the Metropolitan Opera House on March 23, 1899, in honor of the late Anton Seidl. The income of the fund to be paid to Mrs. Seidl during her lifetime, and thereafter 'to be awarded at least every second year to the most promising candidate, either man or woman, prepared to devote himself to the study of musical composition at Columbia University, or elsewhere in this country or abroad.' 1899.

## WARING MUNICIPAL FUND :

The Chamber of Commerce of the State of New York, in the latter part of the year 1898, raised by public subscription the sum of \$100,000, to perpetuate the memory of the late Col. George E. Waring. The income thereof (to be not less than \$4000 per year) to be paid semi-annually to the widow and daughter of Colonel Waring during their lifetime, and thereafter the income "shall be devoted to the purpose of instruction in municipal affairs in such manner as the President and Board of Trustees of said Columbia College may direct." 1899.

## FUND FOR THE ENDOWMENT OF THE ABRAHAM JACOBI WARD FOR CHILDREN IN ROOSEVELT HOSPITAL :

Gift of an anonymous donor of \$50,000, "to endow a ward for children in the Roosevelt Hospital." 1899.

## BECK FUNDS :

The late Charles Bathgate Beck, A.B. Class of '77, LL.B. Class '79 (who died in 1894), bequeathed the sum of \$10,000 to be applied as follows : \$2000 to found one free scholarship, the income to be applied "to the free yearly tuition and education in said College of one student forever, under such terms and conditions as the rules of said College and said Trustees shall prescribe." The income of the remaining \$8000 to be used for an annual prize "to the students in the Law School who shall pass the best examination in Real Estate Law." 1899.

Statutes, Ch. XXII, Secs. 21, 22.

## CURTIS FUND :

Gift of the George William Curtis Memorial Committee of \$10,000 to establish a fellowship in the School of Political Science in Columbia University, to bear the name and to perpetuate the memory of the late George William Curtis. The holder of the fellowship to devote himself to the study of the Science of Government, with a special view to its application to the then existing condition of the United States, or of the State or City of New York, and to publish a monograph on some subject relating to the then existing condition of the United States. 1899.

Statutes, Ch. XXI, Sec. 20

## DYCKMAN FUND :

Gift of Isaac Michael Dyckman of \$10,000, in memory of his uncles, Dr. Jacob Dyckman and Dr. James Dyckman, both of the College of Physicians and Surgeons, to establish the "Dyckman Fund for the Encouragement of Biological Research," the interest derived therefrom to be devoted annually to such object consistent with the purposes of the gift as shall be recommended by the department of Zoölogy and approved by the President." 1899.

## ALEXANDER MONCRIEF PROUDFIT FELLOWSHIP FUND :

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to found a fellowship to be known as "The Alexander Moncrief Proudfit Fellowship in Letters." 1899.

Statutes, Ch. XXI, Sec. 18.

## MARIA MCLEAN PROUDFIT FELLOWSHIP FUND, SCHOOL OF MEDICINE :

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to found a fellowship in the School of Medicine, to be known as "The Maria McLean Proudfit Fellowship." 1899.

Statutes, Ch. XXI, Sec. 19.

## TRUST FUND FOR PSYCHOLOGY :

Gift of \$100,000 from John B. Rockefeller as an endowment of the head professorship of the Psychological Department of Columbia University. 1899.

## CARL SCHURZ FELLOWSHIP FUND :

Fund of \$10,000 from the Carl Schurz Fund Committee to establish a fellowship in honor of Carl Schurz. 1900.

## CARL SCHURZ LIBRARY FUND :

Fund of \$10,000 from the Carl Schurz Fund Committee, established in honor of Carl Schurz. The income to be devoted to the purchase of books, maps, pamphlets, and the like, in the field of the German Language and Literature. 1900.

## CAMPBELL SCHOLARSHIP FUND :

Gifts of \$3000 each from Miss Maria L. Campbell and Miss Catharine B. Campbell, for the establishment of two scholarships in the College, in memory of Robert B. Campbell of the Class of '44, and Henry P. Campbell of the Class of '47. 1901.

Statutes, Ch. XXII, Sec. 24.

## GERMAN LECTURE FUND (\$1000) :

Composed of gifts for an endowment for Public Lectures in German at the University. The income to be used towards paying for advertising, printing, slides, etc., for this course. 1901.

## EATON PROFESSORSHIP FUND :

On account bequest of the late Dorman B. Eaton of \$103,055.79, to endow and maintain a Professorship of Municipal Science and Administration in the College. 1901.



## DEAN LUNG PROFESSORSHIP IN CHINESE FUND :

Gift of anonymous friends, through the President, of \$213,000 towards the founding of a Department of Chinese Languages, Literatures, Religion, and Law, and especially for the establishment of a Professorship to be known as the Dean Lung Professorship of Chinese. 1901.

## CLASS OF 1848 SCHOLARSHIP FUND :

Gift of an anonymous friend to found two scholarships in the College..... \$10,000.00

## GEORGE WILLIAM CURTIS MEDALS FUND :

Gift from an associate of George William Curtis in the Civil Service Reform work to establish this fund..... \$1,000.00

## PHILOLEXIAN CENTENNIAL WASHINGTON PRIZE FUND :

Gift from the Philolexian Society to establish this fund..... \$1,000.00

## PHOENIX LEGACY :

On account of one-third part of the residuary estate of the late Stephen Whitney Phoenix..... \$149,508.44

## PRIVILEGES IN OTHER INSTITUTIONS OPEN TO STUDENTS OF COLUMBIA UNIVERSITY

### American Museum of Natural History

The American Museum of Natural History places its collection at the service of advanced students of Columbia University for the purposes of study and research, and provides them with the necessary facilities for work.

### Metropolitan Museum of Art

The Metropolitan Museum of Art admits students of Columbia University to the Museum on presentation of their matriculation cards, and gives them permission to draw, sketch, or copy objects in the Museum; the curator of the department in which the student desires to work furnishing him with cards for the work.

Objects may be removed temporarily from exhibition for the purpose of special study, and students are allowed to study these objects in rooms specified for the purpose.

### Theological Seminaries

The Union Theological Seminary admits, without fee, such students of high standing in the senior year of Columbia College and in the graduate schools of the University as may be recommended by the President, to such lectures in the regular courses of the Seminary as may be agreed upon by the Faculty of the Seminary and the President of Columbia University, and also any students of high standing in the graduate schools of Columbia University recommended by the President, to any optional or special classes, subject to the approval

of the Faculty of the Seminary. The privileges of the Library of the Seminary, for reference, are open to all students of Columbia University on recommendation of the President. Reciprocal advantages are offered by the University to students of the Seminary.

The University enjoys similar reciprocal arrangements with the other theological seminaries in the vicinity of New York—the General, Jewish, Drew Theological Seminary (Madison, N. J.), and St. Joseph's Theological Seminary (Yonkers, N. Y.).

#### Botanical Garden

Columbia University has the right to conduct university courses in botany at the New York Botanical Garden and to use the laboratories and floral material of the same, and all courses of instruction given there are open to officers and students of the University without charge.

#### Hospitals

Besides the Vanderbilt Clinic, the general and special hospitals of New York afford most important fields for clinical teaching. This College is strongly represented on the staffs of these institutions, and regular clinical instruction at hospitals is made a prominent feature of the curriculum. *Admission is free* to all matriculated students of the College of Physicians and Surgeons.

### PUBLIC LECTURES

The University conducts annually a single course of public lectures by some eminent authority at the Cooper Union, and, beginning with the year 1902-03, will conduct similar courses in alternate years at the American Museum of Natural History and the Metropolitan Museum of Art. During the year many public lectures are also delivered at the University, several of the Departments of Instruction presenting courses of lectures each year. Information as to all public lectures under the auspices of the University will be furnished by the Secretary.

### THE LIBRARY

JAMES H. CANFIELD.....	<i>Librarian</i>
CHARLES A. NELSON.....	<i>Head Reference Librarian</i>
	<i>and Editor of Library Publications</i>
EDWARD R. SMITH.....	<i>Reference Librarian, Avery Library</i>
JOHN D. KAPS.....	<i>Law Librarian</i>
MARGARET VAN ZANDT.....	<i>Supervisor, Order Department</i>
HARRIET B. PRESCOTT.....	<i>Supervisor, Catalogue Department</i>
VLADIMIR GR. SIMKHOVITCH.....	<i>Supervisor, Department of Serials</i>
FREDERIC W. ERB...	<i>Supervisor, Loan Division of Readers' Department</i>
FRANK C. ERB.....	<i>Supervisor, Shelf Department</i>

The Library is open each week day (except Thanksgiving, Christmas, Good Friday, and Independence Day) from 8.30 A.M. until 10 P.M., July–September; and until 11 P.M., October–June. All officers, students, and graduates of all colleges and departments of the University have free access to the Library and may draw books for home use.

Officers of the New York University and of the College of the City of New York are granted the same Library privileges as are extended to graduates of Columbia University.

Persons not connected with the University, who are responsibly introduced to the Librarian, are given the privilege of using the Library in the building.

A reference library of about 10,000 volumes of carefully selected reference books and of the most important works on all subjects, in standard editions, representing the leading authors in all literatures, is placed in the general reading-room, directly accessible to all readers.

Connected with the stacks in which are stored the books relating especially to Philosophy, Education, Literature, and Philology, the Sociological and Economic Sciences, Public Law, and History, are eighteen special study rooms, open only to authorized readers. This arrangement is intended to give to advanced students and investigators in these fields the fullest opportunity to carry on their work by the use of a quiet room in the immediate vicinity of the literature of the subjects under consideration.

The reading-room of the Law Library occupies the middle of the north wing of the Library building, on the main floor. This is the central feature of the Law School, to which the north wing of the building is temporarily devoted.

The Avery Architectural Library is a collection of about 17,500 volumes relating to architecture and decorative art. Readers have direct access to the alcoves.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to readers.

The Library contains about 330,000 volumes, exclusive of unbound pamphlets and duplicates. The additions for the past five years have averaged over 18,000 volumes annually.

Among the notable special collections may be mentioned the Phoenix Library, consisting of 7000 volumes, the gift of Stephen Whitney Phoenix of the Class of 1859; the Avery Architectural Library; the Mary Queen of Scots Library, containing 400 volumes, collected and given by General J. Watts de Peyster; the collection of over 1200 volumes by and about Goethe; the Immanuel Kant collection of about 700 volumes; the valuable Townsend Library of National, State, and Individual War Records; the Garden Library, deposited by the Southern Society of New York; the large and valuable library of the Holland Society of New York, including the remarkable collection of works of Grotius; and the Library of the American Mathematical Society.

## THE GYMNASIUM

WATSON L. SAVAGE, A.M., M.D.....	<i>Director</i>
GUSTAV H. BOJUS.....	<i>Instructor</i>
G. RUPPERT SEIKEL.....	<i>Pianist and Assistant Instructor</i>
CHARLES HOLROYD.....	<i>Instructor in Swimming</i>
WILLIAM F. HILLS.....	<i>Secretary</i>
EDWARD COURTOIS.....	<i>Clerk</i>

The Gymnasium is open daily during the academic year, except on Sundays and legal holidays, from 10 A.M. to 7 P.M., Saturdays to 6 P.M. The Gymnasium is closed for the entire day only on Thanksgiving, Christmas, New Year's, and Good Friday. On all other holidays it is open from 2 to 6 P.M.

The general exercising room is apsidal in shape, and measures on its axes 168 feet by 134 feet in the clear. The ceiling is 35 feet high, and the room is well lighted and well ventilated, both naturally and artificially. The arrangement of the apparatus is such that athletic, gymnastic, and calisthenic work can go on at the same time. The running track is 11 feet wide, with ends well raised for fast running, and measures 10 laps to the mile. On a floor 22 feet above the exercising floor are rooms for fencing, boxing, and handball, 1560 lockers made of steel and open wire, and 32 shower-baths. Below the exercising floor is a swimming pool, also apsidal in shape, measuring 100 feet by 50 feet on its axes. Around the pool are four large dressing- and rubbing-rooms, 42 individual dressing-rooms of thick opaque glass, and 20 shower-, needle-, and tub-baths. The pool contains about 200,000 gallons of water, which is filtered and, in winter, warmed. The depth is from 4 to 10 feet. On this floor is also a special training room for the crews, with separate bath and locker rooms for both the university and freshmen crews.

All men students other than students of the College of Physicians and Surgeons must pay annually a gymnasium fee of \$7.00. This covers the use of the Gymnasium, a locker, and the baths during the academic year, and includes all necessary laundry service. Officers, students in the College of Physicians and Surgeons, and alumni may use the Gymnasium upon the same terms.

Every student is entitled to a physical examination by the Director. His physical measurements will be recorded; his strength tested; his heart, lungs, eyes, and ears examined; and his general health inquired into. On the basis of this examination, advice will be given as to the kind and amount of exercise best adapted to his needs.

Two hours a week of work in the Gymnasium is prescribed for all members of the two lower classes in the College and the Schools of Applied Science, except special students, students holding degrees from other colleges, and students so crippled as to be unable to perform the work. A physical examination is required of each student to these

classes upon entrance and upon completion of the required work or at the end of the second year, and of all other students taking part in athletics.

The work prescribed for these classes has been arranged with a view to instructing students in the use of the apparatus provided and giving them the largest amount of the most suitable exercise. The movements are arranged in the most approved physiological order and are designed to exercise every part of the body without exhaustion. In addition, each student in these prescribed courses is taught the elements of the four principal arts of self-preservation—boxing, fencing, wrestling, and swimming. The prescribed work consists of (1) carefully arranged movements in classes, with musical accompaniment, free-hand exercises, and drills with dumb-bells, French wands, Indian clubs, iron wands, and chest weights; (2) progressive exercises, in graded squads, on the various heavy apparatus, such as horizontal, vaulting, and parallel bars, flying and swinging rings, German horses and bucks, ladders, tumbling, and the like; (3) gymnastic games that develop agility, coördination, and ability to think and act quickly. Students who cannot swim are also taught, in small squads. Students are marked upon the basis of attendance, effort, and knowledge of the subjects taught, and the passing mark is as necessary for a degree as that of any other subject.

Optional classes, open to every member of the University, for exercises similar to those in the prescribed courses, are held every afternoon except Saturday, as follows: Monday, Wednesday, and Friday, mass exercises in light gymnastics; Tuesday and Thursday, squad exercises in elementary and advanced heavy gymnastics.

One or more of the instructors are on the floor at all times when the Gymnasium is in use.

### STUDENT ORGANIZATIONS

The various student organizations, athletic and other, are self-governing, but all budgets for expenditures must be approved by the Director of Student Organizations, an officer appointed by the President: and each organization is required to keep an accurate record of its financial operations in the office of the Director. The schedules of each athletic team, and all questions of eligibility for participation in athletic contests, are under the supervision of the Faculty Committee on Athletics. A pamphlet giving full information regarding the organization and administration of athletic sports at the University (including the rules of the Faculty Committee on Athletics) may be obtained from the Secretary of the University.

### PUBLIC WORSHIP AND RELIGIOUS WORK

A service is held every week day, except Saturday, in the auditorium of Earl Hall, at 9 A.M. This hour, though early for those who live at a distance, has been found the most convenient, all things

considered. The service lasts fifteen minutes, in which time there are singing, reading the Scriptures, prayers and an address by the Chaplain or some other officer of the University. Attendance is wholly voluntary. All officers and students of the University are invited to attend, and those who profess and call themselves Christians are expected to give support to the services by their occasional presence.

Religious work accompanies religious worship. The Chaplain spends his morning hours in his office, where at stated times he is glad to welcome any student who may wish to confer with him.

### Earl Hall

Earl Hall, erected and equipped as a gift of a friend of the University, is entirely devoted to the religious, philanthropic, and social life of the University. On the ground floor are large and inviting rooms for the women students, a suite of living rooms for the Secretary of Earl Hall, a large room for Bible classes and other similar organizations, and a committee room. The first floor, reached by a fine approach through a heavily columned portico, contains a general reception and social room, the office of the Secretary, two class rooms or committee rooms, a small auditorium, and a large and well-equipped reading-room. On the second floor is a special reference library for students of mission work, a small social room, and the large auditorium. The Hall is open, without expense, to all students of the University, and its occupancy and work are under the general control of a Committee of Officers and Alumni, and under the direct management of the Secretary of Earl Hall, who is also Secretary of the University Young Men's Christian Association.

## DEPARTMENTS OF INSTRUCTION

When an announced course has not been applied for by at least three students, candidates for a degree, the instructor shall be at liberty to withdraw the course.

The number of hours, unless otherwise specified, indicates the number of hours a week for the entire year.

Consult the index for any subject of study not appearing in its alphabetical order.

### Anatomy

GEORGE SUMNER HUNTINGTON, M.D.....	<i>Professor</i>
BERN BUDD GALLAUDET, M.D.....	<i>Demonstrator</i>
HOWARD D. COLLINS, M.D.....	<i>Assistant Demonstrator</i>
CHURCHILL CARMALT, M.D.....	<i>Assistant Demonstrator</i>
ARTHUR S. VOSBURGH, M.D.....	<i>Assistant Demonstrator</i>
HENRY E. HALE, M.D.....	<i>Assistant Demonstrator</i>
ADRIAN VAN SINDEREN LAMBERT, M.D.....	<i>Assistant Demonstrator</i>
CARLTON PHILIPS FLINT, M.D.....	<i>Assistant Demonstrator</i>
EUGENE HILLHOUSE POOL, M.D.....	<i>Assistant Demonstrator</i>
ROLFE FLOYD, M.D.....	<i>Assistant Demonstrator</i>

Courses 2, 3, 4, and 5 are required in the first year of candidates for the degree of M.D. The four courses together may be elected by seniors in Columbia College.

Courses 1, 6, 7, 8, and 9 are required in the second year of candidates for the degree of M.D.

Courses 10 and 11 may be offered as a major or minor for the degree of A.M. or Ph.D. according to special arrangement with the head of the department. They are optional for qualified candidates for the degree of M.D.

Courses 12-23 may be offered each as a minor for the degree of A.M. They are optional for candidates for the degree of M.D., and are open to post-graduate students in medicine.

Course 24 cannot be counted for a degree. It is open to teachers and qualified graduate students.

None of the courses of the department of Anatomy are open to women.

### Courses

1—Vertebrate morphology—Anatomy of the body cavities—Visceral and topographical course—Thorax and abdomen. Lectures combined with demonstrations. 3 hours. Professor HUNTINGTON

2—Demonstrations to sections of the class—Cranial osteology; syndesmology, myology, peripheral nervous system, and angiology of the head and neck. 1 hour. Dr. LAMBERT

3—Demonstrations to sections of the class—Osteology, syndesmology, myology, peripheral nervous system, and angiology of the extremities. 2 hours. Drs. CARMALT and VOSBURGH

These courses are so arranged as to maintain, with reference to the subjects treated, a direct connection with the laboratory course in dissection, No. 5.

5—Laboratory course—Dissection of the human body. 18 to 20 hours a week, at various hours, for from 3 to 5 periods of 4 weeks each. Professor HUNTINGTON, Dr. GALLAUDET, and the ASSISTANT DEMONSTRATORS OF ANATOMY

6—Laboratory course—Dissection of the human body. 10 to 12 hours a week for from 6 to 11 weeks. Professor HUNTINGTON, Dr. GALLAUDET, and the ASSISTANT DEMONSTRATORS OF ANATOMY

7—Demonstrations to sections of the class—Anatomy of the mouth, pharynx, and larynx—The auditory apparatus—The central nervous system. 3 hours. Dr. GALLAUDET

8—Demonstrations to sections of the class—Visceral anatomy. This course preserves an organic connection with Course 1, and presents for direct examination and demonstration the preparations serving to illustrate that course. 2 hours. Dr. FLOYD

9—Demonstrations to sections of the class—Anatomy of the cranial nerves. 1 hour for one half-year. Dr. FLINT

10—Laboratory courses in animal morphology. No specified number of hours a week. Professor HUNTINGTON

### Research

11—The laboratory of animal morphology is open for research, under the direction of the professor, to advanced workers. Professor HUNTINGTON

12—Comparative morphology of the carpus—A comparative study of the carpus in vertebrates above fishes, with especial reference to the homologies of the components, their evolution and significance, and their mutual relations in amphibia, reptiles, birds, and mammals. Professor HUNTINGTON and Dr. FLOYD

13—Comparative morphology of the respiratory apparatus in mam-



malia, sauropsida, and batrachia—Evolution of the composite mammalian lung from the air-sac—Morphology of mammalian bronchial tree—Construction of terminal branches and end spaces—Skeletal and other modifications of the respiratory apparatus in birds. Professor HUNTINGTON and Dr. FLOYD

14—Comparative morphology of the central nervous system—Demonstration and laboratory course—Detailed work in brain of cod, frog, turtle, bird, and mammal. Professor HUNTINGTON and Dr. FLOYD

15—Comparative myology. (a) Appendicular muscles. (b) Vento-appendicular muscles. (c) Muscles of the foot. Professor HUNTINGTON and Dr. FLOYD

16—Human and comparative morphology of the auditory apparatus. Professor HUNTINGTON and Dr. FLOYD

17—Comparative morphology of the upper respiratory passages, nares, larynx, epiglottis, syrinx. Professor HUNTINGTON and Dr. FLOYD

18—Comparative morphology of the uro-genital system. Professor HUNTINGTON and Dr. FLOYD

19—Cranial topography. Professor HUNTINGTON and Dr. FLOYD

This course is designed for advanced students possessing a knowledge of the gross morphology of the human brain.

Pre-requisite: Course 7 or its equivalent.

20—Comparative morphology of the heart and vascular system—Development and modification of the venous system in vertebrates. Professor HUNTINGTON and Dr. FLOYD

21—Comparative morphology of the alimentary tract and digestive glands—Anatomy of the peritoneum. Professor HUNTINGTON and Dr. FLOYD

22—Comparative morphology of the cæcum and ileo-colic junction in vertebrates—Detailed study of the modification of the structures and their vascular and serous relations. Professor HUNTINGTON and Dr. FLOYD

23—Topography of the pelvic viscera, muscles, and fasciæ. Professor HUNTINGTON and Dr. FLOYD

24—Anatomical technology and museum methods. Professor HUNTINGTON and Dr. FLOYD

In all courses offered in morphology the work is designed to be laboratory exercises of at least two continuous hours' duration, at any one exercise, supplemented in certain courses by demonstration and study of material contained in the Museum of Human and Comparative Anatomy and in the study collections of the department

The time required for the above courses, if offered as minors for the degree of A.M. or Ph.D., or if taken as optionals, is half a day per week from October to April.

The demands on laboratory space and teaching force render it necessary to limit the number of candidates admitted to these courses.

A series of university lectures and demonstrations based on the material contained in the morphological museum is given annually.

These lectures are incorporated in Course 1, and deal with the comparative anatomy of the circulatory, respiratory, alimentary, and urogenital systems of vertebrates, together with certain portions of the skeletons, as the pectoral and pelvic girdles. The lectures are open to students under the Faculty of Pure Science. Details of subjects and dates will be furnished on application to the department.

### Fellowships

For the fellowships open to persons desiring to do special work under the professor of anatomy, see page 41.

### Anatomical Laboratories

The laboratory facilities of the department of Anatomy are very complete. The large general dissecting-room accommodates from 390 to 546 students at a time, working in groups of five or seven, respectively, at one table.

The plant for the production of artificial cold by the anhydrous-ammonia process has enabled the department, through the means offered for the indefinite preservation of fresh subjects by the cold-storage system, greatly to increase the amount of material available for laboratory work; and has also rendered it possible so to regulate the temperature of the general laboratory that the work can be carried on without difficulty during the warmer months at the beginning and close of the academic year.

The laboratory for advanced morphological research occupies the third story of the new anatomical building. Every facility for advanced and research work in morphology is here extended. The established connections of the department furnish abundant human and comparative material, both mature and embryonal. The private library of the professor of anatomy is at the disposal of advanced workers.

### Museum of Human and Comparative Anatomy

Much work has been done in the formation of a Museum of Human and Comparative Anatomy, the ultimate design of which is to present, in as complete a manner as possible, a view of the evolution of the forms of animal life, and of their natural relations, both in series of natural groups, and in the comparative and relative position of organs and

systems. Even the approximate attainment of this aim will require much time and work, but sufficient progress has been made to enable the department to offer great facilities for study and research. The collection, both as regards groups and the individual preparations, is designed for the illustration of both elementary and advanced courses, and is largely used in the instruction of the medical undergraduates and in advanced study and research. The new anatomical building provides the opportunity for the further development of this invaluable portion of the departmental equipment. The first and second stories of the new building are devoted to the morphological museum, and it is hoped that in the space thus provided the continued development of scientific anatomy, both for purposes of undergraduate instruction and of advanced research, will steadily proceed.

In addition to the museum collection proper the department is constantly adding to a large collection for advanced study and research.

A study-collection of human osteological preparations is so administered as to enable every student to take out the different osteological series and retain them for private study as long as required.

### Anthropology

FRANZ BOAS, Ph.D.....	<i>Professor</i>
LIVINGSTON FARRAND, A.M., M.D.....	<i>Adjunct Professor</i>
JOSEPH HERSHEY BAIR, A.M.....	<i>Assistant</i>

Courses 1, 2, 3, 4, 5, 7, 8, are open to seniors in Columbia College and Barnard College. Courses 2-9 inclusive may be counted towards the degree of A.M., and Ph.D. All courses are open to women, except 3. All courses except 3 are open to auditors.

### Courses

1—Anthropology, general introductory course—Lectures, essays, and discussions. 2 hours. First half-year: physical anthropology and linguistics. Second half-year: ethnology. Professor BOAS

[7—Ethnography of America—Lectures, essays, and discussions. 2 hours. Professor BOAS. Not given in 1902-03.]

8—Ethnography of the Islands of the Pacific Ocean and of Africa—Lectures, essays, and discussions. 2 hours. Professor FARRAND

2—The statistical study of variation, introductory course—Lectures, essays, and discussions. 2 hours lectures, 2 hours laboratory. First term. Professor BOAS

9—The statistical study of variation, advanced course—Lectures, essays, and discussions. 2 hours lectures, 2 hours laboratory. Second term. Professor BOAS

3—Ethnology—Primitive culture—Lectures, papers, and discussions. 2 hours. Professor FARRAND

4—Physical anthropology—Lectures and laboratory work. 2 hours.  
Professor BOAS

5—American languages—Lectures and discussions. 2 hours. Pro-  
fessor BOAS

6—Anthropological research. Professors BOAS and FARRAND

The collections and apparatus of the American Museum of Natural History may be used by students of Anthropology. An Anthropological Laboratory has been fitted up in the Museum in which practical work may be carried on by students. The extensive collection of crania and skeletons and the ethnological material in the Museum are utilized in connection with the lectures given in the department and are available for research work.

## Architecture

WILLIAM R. WARE, LL.D. . . . . *Professor of Architecture*  
ALFRED D. F. HAMLIN, A.M. . . . . *Adjunct Professor of Architecture*  
FRANK DEMPSTER SHERMAN, Ph.B. . . *Adjunct Professor of Architecture*  
MAXIMILIAN K. KRESS, A.M. . . . *Curator and Lecturer in Architecture*  
GRENVILLE T. SNELLING, B.S. . . *Instructor in Architectural Engineering*  
CHARLES A. HARRIMAN. . . . . *Instructor in Architectural Drawing*  
CHARLES P. WARREN, A.M. . . . . *Tutor in Architectural Construction*  
WILLIAM T. PARTRIDGE. . . . . *Lecturer in Architectural Design*  
HENRY F. HORNBOSTEL, Ph.B. . . . *Lecturer in Architectural Design*

The first three years are given to parallel courses in drawing and design, in history and ornament, and in mathematics, architectural engineering, specifications, and building materials, with exercises in the reading of French and German text-books and the writing of English. In the second and third years there are lectures on the theory of architecture and on the decorative arts. Many of these subjects are given in alternate years, two classes taking them together. In the fourth year the students have the choice of an advanced course in history and design, or of an advanced course in scientific and practical construction.

Still more advanced courses both in design and in construction are offered to graduates of schools of science and schools of architecture, and professional draughtsmen of mature age are received as special students, not candidates for a degree, into such courses as they are qualified to pursue.

In alternate years are awarded a travelling fellowship, established by the Trustees in recognition of the liberality of Mr. F. A. Schermerhorn to this department, and two travelling fellowships, the gift of Mr. C. F. McKim. Every fourth year is awarded a travelling fellowship, the bequest of the late Willard B. Perkins.

Courses 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, and 15 are open as electives to seniors in the College.

*For a detailed description of the work in architecture, consult the Fine Arts Announcement.*

### Courses

1—Ancient architectural history. 3 hours, first year. Mr. KRESS

2—Mediæval architectural history — Byzantine, Romanesque, Gothic. 2 hours, first half-year, with reading of a French text-book by the first class and of a German text-book by the second class. 2 hours reports and criticisms, and 13 hours original research in library and drawing-room (including historical drawing 93), second half-year. Exercises in historical design (see 15). Every other year to the second and third classes together (alternating with 3). Given in 1902-03. Professor WARE and Mr. KRESS

[3—Modern architectural history—The Renaissance, modern revivals, Oriental and American architecture. 2 hours, first half-year, with reading of a French text-book by the second class and of a German text-book by the third class. 2 hours lectures, and 13 hours research in library and drawing-room (including historical drawing 93), second half-year. Exercises in historical design (see 15). Every other year to the second and third classes together (alternating with 2). Given in 1903-04. Professor HAMLIN and Mr. KRESS]

4—The theory of architecture—In alternate years: (41) The theory of form, proportion, symbolism; (42) the decorative arts, stained glass, mosaic, fresco. Given in 1902-03. [(43) The theory of color; (44) planning, composition, and style. Given in 1903-04.] 1 hour, second and third classes together. Professor WARE

5—History of ancient ornament—The decorative forms of Egyptian, Assyrian, Greek, and Roman art. 1 hour, first year. Professor HAMLIN

6—History of mediæval ornament—Byzantine and Gothic ornament. 1 hour. Every other year to the second and third classes together (alternating with 7). Given in 1902-03. Professor HAMLIN

[7—History of modern ornament—Renaissance, Oriental, and modern ornament. 1 hour. Every other year to the second and third classes together (alternating with 6). Given in 1903-04. Professor HAMLIN]

8—The elements of architecture—The orders, etc. Eighteen plates required. 1 hour lecture, first year. Mr. PARTRIDGE

9—Drawing. (91) Architectural drawing, with brush, pencil, and pen. 13 hours, first year. Mr. HARRIMAN. (92) Free-hand drawing, with pencil, pen, and brush; sketching and drawing of ornament

and the figure from lithographs, photographs, casts, and from the life; water colors; modelling. About four hours a week throughout four years. Professor HAMLIN, Mr. HARRIMAN, and Mr. PARTRIDGE

(93) Historical drawing. 2 hours, first year. In illustration of ancient history, in connection with Course 1. Mr. KRESS

(94) Sketches and measured drawings from buildings first year. Summer-vacation work, second and third years. Professor HAMLIN and Mr. HARRIMAN

10—Projections, intersections, and shades and shadows. 1 hour lecture, first year. Twenty plates required. Professor SHERMAN

11—Perspective. 16 lectures, second year. Sixteen plates required. Professor WARE

12—Descriptive geometry, stereotomy (stone-cutting). 2 hours, fourth year. Twenty-four plates required. Professor SHERMAN

13—Specifications. (131) Masonry; Woodwork; Iron-work; Plumbing. The class copy a model specification and are examined upon the lectures. 2 hours, third year. 6 hours in the draughting-room every other week. Mr. WARREN. (132) Building materials, building-stones, artificial stones, cements, asphalts, terra-cotta. Growth and preservation of wood; paints, glass. Metals, fire-proofing. 2 hours, third year. Mr. WARREN

14—Architectural engineering. (141) Analytical geometry. The differential calculus. 3 hours, first year. (142) The integral calculus. Analytical mechanics: statics, elementary dynamics. 3 hours, second year. Professor SHERMAN. (143) Applied mechanics. 5 hours, third year. 6 hours in the draughting-room every other week. Mr. SNELLING

15—Architectural design. 1 hour, first year; 13 hours, first half of the second and third years. Problems in design: plans, elevations, sections, and details. Professor WARE, Professor HAMLIN, and Mr. PARTRIDGE

In the second year the problems involve special drill in the use of the orders; in the third year in planning and composition (see 19).

In the second and third years the afternoons of the second half-year are mainly occupied by historical study; but there are also a limited number of problems in historical design (see 2 and 3).

16—Archæology. 2 hours, first year, in French. 2 hours, second year, in German (see 2 and 3). Mr. KRESS

17—Architectural essays. 1 hour, first, second, and third years. Professor WARE and Professor SHERMAN

18—Advanced architectural history. 2 hours, fourth year. Reading and writing on special topics with illustrative drawings. Professor WARE

**19**—Advanced architectural design—Advanced problems in planning and composition. 23 hours, fourth year. Professor HAMLIN and Mr. HORNBOSTEL

**20**—Advanced architectural engineering—Practical examples in applied mechanics, treated both graphically and analytically. Problems in constructive design. 15 hours, 15 hours practice, fourth year. Professor BURR, Professor WOODWARD, and Mr. SNELLING

**21**—Advanced architectural practice—The study of building processes. 2 hours, fourth year. Mr. WARREN

Courses **20** and **21** are not required of students electing courses **18** and **19**, and *vice versa*. Each pair of courses constitutes a complete year's work.

**22**—University course in architectural design and practice. 30 hours. Four special problems occupying two months each. Professor WARE, Professor HAMLIN, Mr. HORNBOSTEL, Mr. SNELLING, and Mr. WARREN

**23**—University course in architectural engineering and practice. 30 hours. Professor BURR, Professor WOODWARD, Mr. SNELLING, and Mr. WARREN

These two university courses are open to graduates of schools of architecture and to men of like standing who are qualified to take them. They count towards the degrees of Master of Arts and Doctor of Philosophy.

Experienced draughtsmen and other properly qualified candidates are received as special students for periods of two months at a time.

### Equipment

The equipment of the department consists of about 18,000 photographs, about 900 books, a classified library of prints and plates, the Avery Architectural Library of about 13,500 volumes, a collection of MS. drawings from the *École des Beaux-Arts*, a collection of casts of architectural details from ancient and modern Roman buildings, a collection of building-stones, tools, and materials, and about 7500 lantern slides of architectural subjects. The Willard collection of architectural casts at the Metropolitan Museum is open to students every day and two evenings every week.

### Astronomy

JOHN KROM REES, E.M., Ph.D. .... *Professor*  
 HAROLD JACOBY, Ph.D. .... *Adjunct Professor*  
 S. ALFRED MITCHELL, Ph.D. .... *Tutor*

### Preliminary Statement

For a more detailed statement in regard to the courses the inquirer is referred to the *Announcement of the Faculties of Political Science, Philosophy, and Pure Science*.

Courses 1, 2, 30, 31, 32, 33 are open to seniors in Columbia College who are properly qualified.

Courses 1 and 2 are open to seniors in Barnard College, and no courses at present are given separately at Barnard College.

All courses, except 30, 31, 32, 33, are open to graduate women students upon the same terms as to men.

All courses may be counted towards the degree of Master of Arts or Doctor of Philosophy.

All courses are open to auditors.

Courses 4-10 are open to candidates having the requisite previous training.

Courses 1, 2, 30, 31, 32, and 33 may be pursued by candidates for the higher degrees, who have not taken such courses in undergraduate work.

For candidates for higher degrees the pre-requisites or their equivalents are as follows:

For Course 1, Physics 1 or 4, and Mathematics 3a and 5; for Course 2, Physics 1 or 4, and Mathematics 6; for Course 30, Physics 1 or 4, Mathematics 6, and Civil Engineering 15 and 16; for Course 31, Astronomy 30; for Course 32, Astronomy 31; for Course 33, Astronomy 32; for Courses 4, 5, 6, and 8, Astronomy 1 and 2; for Course 7, Astronomy 30 to 33 (inclusive) or 4; for Course 9, Astronomy 8; for Course 10, Astronomy 1 and Mathematics 6.

Courses 1, 2, may be offered as a minor for the degree of A.M.

Courses 30, 31, may be offered as a half-minor for the degree of A.M.

Courses 32, 33, may be offered as a half-major for the degree of A.M.

First year of Courses 4, 5, 6, 7, 8, may be offered as a major for the degree of A.M. or a minor for the degree of Ph.D.

Full two years of Courses 4, 5, 6, may be offered as a major for the degree of Ph.D.

Courses 30, 31, are required of students in the Civil and Sanitary Engineering courses during the third year, 32 between the third and fourth years, 33 in the fourth year.

### Courses

1—General Astronomy—Historical and descriptive. 2 hours.  
Professor REES, assisted by Dr. MITCHELL

2—Spherical and practical astronomy—Mainly the study and use of the sextant for time and latitude determinations, and the transit instrument for time. 2 hours lectures and 2 hours observatory work.  
Professor REES and Dr. MITCHELL

30—Geodesy—A brief history of geodetic operations and description of theodolites, base apparatus, and other instruments used in geo-



detic work, including their adjustment and use. 2 hours a week for one half-year, October to February. Professor REES, assisted by Dr. MITCHELL

31—Geodesy—The applications of practical astronomy to geodetic surveying. 2 hours a week for one half-year, February to June. Professor JACOBY

32—Geodesy—Summer school in practical geodesy. Given in the field, each student making his own observations and calculations.

Six weeks of practical work from June 4 to July 15. Professor JACOBY and Dr. MITCHELL with assistants

33—Geodesy—Gives the derivation of formulæ used in the summer-school work, the adjustment of observations, and concludes with lectures on descriptive astronomy. 2 hours a week for one half-year, October to February. Professor JACOBY during October and November; and Professor REES, assisted by Dr. MITCHELL, during December and January

4—Advanced spherical and practical astronomy—Deals with the subjects of time, latitude, and longitude. 2 hours lectures and 4 hours observatory work for two years. Professor REES

5—Theoretical astronomy—Theory of comet orbits with practical applications. 1 hour, supplemented by computation, for two years. Professor JACOBY

6—Theory and method of reduction of photographic star plates—Determination of star places from photographic plates, stellar parallax, and proper motion. 1 hour, with practical work, for two years. Professor JACOBY

7—Method of least squares, with applications to astronomy and geodesy. 1 hour for one year. Professors REES and JACOBY

[8—Lectures on celestial mechanics—Elementary course. Follows the historical or chronological method. 1 hour for one year. Not given in 1902-03.]

[9—Advanced course in celestial mechanics. 1 hour for one or two years. Not given in 1902-03.]

10—Astronomical spectroscopy. 1 hour supplemented by laboratory work. Dr. MITCHELL

### Geodetic Apparatus

Base-measuring apparatus, bar and tape.

Theodolites by Wanschaff of Berlin and Saegmuller of Washington, D. C., with micrometer-microscopes reading to a second of arc.

Sextants, reflecting circles, barometers, etc.

### Astronomical Observatory

The astronomical apparatus includes a set of portable instruments: A forty-six inch transit, by Troughton & Simms; a combined transit and zenith instrument for time and latitude determination; an equatorial of five inches aperture, to which is attached a spectroscope with the dispersive power of twelve flint-glass prisms of fifty-five degrees, by Alvan Clark; also a diffraction spectroscope with grating, by the late L. M. Rutherford. The department has two Repsold measuring machines for photographic work. Especial facilities are afforded for graduate work on photographic star plates (see Course 6).

A Wanschaff zenith telescope has been set up in a separate building and is used in making observations for variation of latitude and the constant of aberration.

By the gift of Mr. Rutherford there were added in 1883 to the equipment: (1) An equatorial with object glass thirteen inches in diameter (not mounted at present), supplied with a correcting lens for photographic work; with this instrument belong two micrometers for position measurements. (2) A transit instrument three inches aperture by Stackpole & Brother. (3) A Dent clock. (4) A micrometer for measuring photographic plates, and sundry other pieces of apparatus. The observatory has a fine break-circuit clock by Howard & Co., also chronographs by Fauth & Co. and Warner & Swazey, a personal-equation machine, several chronometers, etc.

The Library of the University is well supplied with the books relating to astronomy and geodesy, and is especially complete as to star catalogues.

### Botany

LUCIEN MARCUS UNDERWOOD, Ph.D.....	<i>Professor</i>
NATHANIEL LORD BRITTON, Ph.D.....	<i>Emeritus Professor</i>
FRANCIS ERNEST LLOYD, A.M....	<i>Adjunct Professor (Teachers College)</i>
HERBERT MAULE RICHARDS, Sc.D.....	<i>Instructor</i>
CARLTON CLARENCE CURTIS, Ph.D.....	<i>Tutor</i>
LOUISE BRISBIN DUNN, A.M.....	<i>Tutor in Barnard College</i>
TRACY ELLIOT HAZEN, Ph.D.....	<i>Assistant</i>
JEAN ALICE BROADHURST.....	<i>Assistant in Barnard College</i>

Certain graduate courses at the New York Botanical Garden are also given, either wholly or in part, by the following members of the Garden Staff:

DANIEL TREMBLY MACDOUGAL, Ph.D.....	<i>Director of the Laboratories</i>
JOHN KUNKEL SMALL, Ph.D.....	<i>Curator of the Museums</i>
PER AXEL RYDBERG, Ph.D.....	<i>Assistant Curator</i>
ARTHUR HOLLICK, Ph.D.....	<i>Assistant Curator</i>
MARSHALL AVERY HOWE, Ph.D.....	<i>Assistant Curator</i>
FRANKLIN SUMNER EARLE, A.M.....	<i>Assistant Curator</i>
GEORGE VALENTINE NASH.....	<i>Curator of the Plantations</i>
HENRY HURD RUSBY, M.D.....	<i>Curator of Economic Collections</i>

Partial courses are also given by:

ELIZABETH GERTRUDE BRITTON

EDWARD SANDFORD BURGESS, Ph.D.

The courses in Botany are arranged with the intention of giving a broad general knowledge of the subject during the first year, and permitting some degree of choice during the second year; for those who continue the work as a graduate subject, the widest possible range of courses is open to the student's choice. Course 1 can be elected by any student who has reached the sophomore year, and if the subject be pursued consecutively for three years, the candidate will be ready to enter upon research work as a major subject. Two years would be sufficient for this preparation if the candidate elected two courses in Botany during the second year. Courses 1-4, or their equivalent, together with Course 5 or Course 7, according as the trend is toward morphology or physiology, form the necessary preparation for commencing a major subject in Botany. Course 1, with any two additional courses or an equivalent, will be required as the necessary preparation for commencing a minor subject in Botany. Minor graduate courses will be arranged after conference with the head of the department.

Auditors will be admitted to any courses for which they may be prepared.

Courses 9-31 are primarily for graduate students; all are open to women.

Courses 51-58 are given at Barnard College, and are primarily undergraduate courses for women.

Courses 9, 10, 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 31, may be taken as major work for A.M.

Course 3 combined with Course 7, or a proportionate amount of work in Courses 9, 10, 16, 18, 19, 20, 22, 23, 24, 25, may be taken as minor work for A.M.

Courses 12, 13, 14, 15, 27, 28, 29, and 30 may be taken as major work for Ph.D.

Any two of the Courses 9, 10, 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 31, or a proportionate amount of work in Courses 12, 13, 14, 27, 28, 30, may be taken as minor for Ph.D. In some cases the accomplishment of an approved piece of research may be offered as a minor for Ph.D.

Course 1 or its equivalent is pre-requisite for all succeeding courses, except Course 8.

Course 2 is pre-requisite for Courses 5, 9, 14, 21, 26, 30, 31.

Course 3 is pre-requisite for Courses 11, 12, 16, 17, 27, 28, 30.

Course 4 or its equivalent is pre-requisite for Courses 9 (if offered as a major for A.M.), 10, 14 (if subject chosen is a group of cryptogams), 18, 19, 20, 22, 23, 24, 25, 30.

Course 5 is a pre-requisite for Courses 9 (if offered as a major for A.M.), 11, 13, 18, 19, 20, 21, 30.

Course 7 is a pre-requisite for Courses 12, 16, 17, 27, 28, 30.

Course 8 is required of first-year students in Civil Engineering.

Graduate students preparing for the profession of teaching are expected to take Education 12 at some time during their course of study.

### Courses

1—Elementary botany—The general biological features of plants and the outlines of the evolution of plant types are considered; special attention being given to the significance of morphological characters and the forces operative in their development. 2 lectures and 4 hours laboratory work a week, counting as a 4-hour course. Dr. CURTIS

2—Comparative morphology of plants—Involving field work on adaptation of structure to physical conditions. 2 laboratory sessions a week, first half-year. Dr. CURTIS

3—Plant physiology—A course in experimental physiology supplemented by selected readings and conferences. 2 laboratory sessions a week, first half-year. Dr. CURTIS

NOTE.—In this and other courses in vegetable physiology the nature of the work occasionally requires attendance at the laboratory at unusual times.

4—General morphology of cryptogams—Detailed study of some group or groups of the lower plants. 2 laboratory sessions a week, second half-year. This course naturally follows Course 2, to complete an elective for the year. Dr. HAZEN

5—Botanical problems—Illustrating advanced methods of fixing, imbedding, sectioning, and staining. 2 laboratory sessions a week, second half-year. Dr. CURTIS

6—Economic botany—Study of plants useful to man as food, medicine, timber, and fibre. 2 hours lecture, or the equivalent in the laboratory. Professor UNDERWOOD

7—Plant physiology—A continuation of Course 3. 2 laboratory sessions a week, second half-year. Dr. CURTIS

8—Lectures on general botany—A brief review of plant structure and function, and the characters and relations of the leading groups of plants, with special attention to the study of timber trees and their identification. 1 lecture, assigned reading, field and laboratory work, first half-year. Professor UNDERWOOD and Dr. HAZEN

9—Taxonomy of spermatophyta—Study of the principal families and general field and laboratory work. Not less than ten hours a week for one year. Professor BRITTON, Dr. SMALL, Dr. RYDBERG

10—Morphology of fungi—Study of the structure, polymorphism, and development of the fungi, including culture methods. Field and laboratory work. Not less than ten hours a week for one year. Mr. EARLE

11—Experimental morphology—A study of the variation of form

and structure, and the determination of the causes. Not less than ten hours a week for one year. Dr. MACDOUGAL, Professor LLOYD, Dr. CURTIS

12—General physiology—Problems in absorption, excretion, nutrition, and transformation of energy, growth, the general irritable organization of the plant, and the mechanism of its movements. Laboratory. Not less than ten hours a week for three years. Dr. CURTIS, Dr. MACDOUGAL, Dr. RICHARDS

13—Embryology of spermatophyta—Comparative embryology of special groups. Special embryological problems. Technique. Not less than ten hours a week for three years; or, with special work during two summers, two years. Professor LLOYD

14—Special taxonomy—Critical study of a family or genus of plants of not less than fifty species. The group may be chosen from the entire range of the vegetable world. Field, herbarium, laboratory, and garden work. Not less than ten hours a week for two years, with field work during two seasons. Directed, according to the group chosen, by Professor UNDERWOOD, Professor BRITTON, Dr. SMALL, Dr. RYDBERG, Dr. HOWE, Mr. EARLE, Mr. NASH, Professor BURGESS

15—Regional botany—Collection, determination, and comparative study of the plants of some restricted area. Field, herbarium, and laboratory work. Not less than ten hours a week for two years, including field work during two seasons. Professor UNDERWOOD, Professor BRITTON. This course requires a previous experience of at least three years in botany

16—Physiology of the cell—Problems in the chemical and the physical properties, movements and irritability of unicellular and other generalized organisms. Laboratory. Not less than ten hours a week for one year. Dr. MACDOUGAL

17—Plant Geography—Occurrence, characters, and arrangement of groups and formations. Relations of plant societies to one another, and to topographic, climatic, and other conditions. Factors governing distribution. Not less than ten hours a week for one year. Professor BRITTON, Dr. MACDOUGAL, Professor LLOYD, Dr. CURTIS

18—Morphology of algæ—Study of the structure and development of algæ. Field and laboratory work. Not less than ten hours a week for one year. Dr. HOWE, Dr. RICHARDS, Dr. HAZEN

19—Morphology of bryophyta—Study of the structure and development of the musci and hepaticæ. Field and laboratory work. Not less than ten hours a week for one year. Professor UNDERWOOD, Dr. HOWE, Mrs. BRITTON

20—Morphology of pteridophyta—Study of the structure and development of the ferns and fern-allies. Field and laboratory work. Not less than ten hours a week for one year. Professor UNDERWOOD

21—Morphology of spermatophyta—Study of the structure and development of the flowering plants. Field and laboratory work. Not less than ten hours a week for one year. Professor LLOYD, Dr. CURTIS, Dr. RYDBERG

22—Taxonomy of algæ—Study of the diagnostic characters and relationships of the principal families and genera. Field and laboratory work. Not less than ten hours a week for one year. Dr. HOWE, Dr. HAZEN

23—Taxonomy of fungi—Study of the diagnostic characters and relationships of the principal families and genera. Field and laboratory work. Not less than ten hours a week for one year. Professor UNDERWOOD, Mr. EARLE

24—Taxonomy of bryophyta—Study of the diagnostic characters and relationships of the principal families and genera. Field and laboratory work. Not less than ten hours a week for one year. Professor UNDERWOOD, Dr. HOWE, Mrs. BRITTON

25—Taxonomy of pteridophyta—Study of the diagnostic characters and relationships of the principal families and genera. Field and laboratory work. Not less than ten hours a week for one year. Professor UNDERWOOD

26—Taxonomy of gramineæ—Study of the diagnostic characters and relationships of the principal genera. Field and laboratory work. Not less than ten hours a week for one year. Mr. NASH

27—Physiology of nutrition—Treated from a chemical standpoint. Not less than ten hours a week for three years. Dr. RICHARDS

28—Ecological physiology—Problems in adaptive reactions in form, structure, and movements to external energy and environmental factors. Field and laboratory work. Not less than ten hours a week for three years. Dr. MACDOUGAL, Dr. CURTIS

29—Physiological anatomy—Problems in the relationships of tissues and functions. Laboratory work. Not less than ten hours a week for three years. Dr. CURTIS

30—Mycological pathology—Study of diseases caused by parasitic fungi with special attention to the morphology of the pathological organism. Also problems in immunity, and effects of unfavorable environment. Field and laboratory work. Mr. EARLE

31—Developmental taxonomy—Fossil ancestors of some family of plants. Comparative study of form and structure. Laboratory and museum. Not less than ten hours a week for one year. Dr. HOLLICK

51—Elementary botany. 3 hours. Dr. RICHARDS

52—General morphology and development of plants. 4 hours. Miss DUNN

53—Morphology and Ecology of phanerogams. 2 hours. Miss DUNN

54—Anatomy of vascular plants. Dr. RICHARDS

55—Physiology of Plants. Dr. RICHARDS

56—Structure and development of algæ. 2 hours, half-year. Dr. RICHARDS

57—Structure and development of fungi — Advanced course. 2 hours, half-year. Dr. RICHARDS

58—Advanced physiology and morphology. 6 hours. Dr. RICHARDS and Miss DUNN

### Equipment

The department of Botany occupies the third floor of Schermerhorn, and the laboratories and lecture-rooms are thoroughly equipped for undergraduate work. A large general laboratory, lecture-room, and morphological and physiological laboratories are supplied with modern instruments for instruction and experiment. A sufficient number of standard botanical works and serials on the subject are reserved for students' use in the general laboratory.

By the agreement entered into between the University and the New York Botanical Garden, all the botanical collections and library of the University (except such works as are needed in the undergraduate work) have been deposited in the museum of the Botanical Garden at Bronx Park; the Garden on its part supplies all needed facilities for research. This combination of forces not only places the department of Botany within reach of material equipment and collections not before available, but opens up facilities for advanced work under conditions that are not excelled.

The museum of the New York Botanical Garden is located in Bronx Park, near the Bronx Park Station of the Harlem Division of the N.Y.C. & H.R.R.R., and its entire upper floor is devoted to research. The physiological and morphological laboratories occupy the western end, and the taxonomic laboratories and herbarium the eastern end. The present floor space for the laboratories, library, and herbarium amounts to 19,000 square feet, in addition to which some space is afforded for special purposes on the basement floor. The laboratories include a suite of fourteen rooms, giving separate facilities for work in the main divisions of the subject. The equipment includes a supply of the apparatus necessary for research. Among the special features provided are to be mentioned the dark rooms, photographic operating and balance room, laboratory for physiological chemistry, constant-temperature chambers, and sky-lighted apartment for living plants which is furnished with a suitable aquarium. Ample opportunity for experimental work is afforded by the open-air plantations and extensive horticultural houses.

The Columbia herbarium and the equally extensive collections of the New York Botanical Garden are housed in the large room in the east wing of the Botanical Museum. The entire aggregation of collections available for students is exceptionally full in every group of plants, from slime moulds to composites.

The portion of the University Library classified under Botany is deposited in the library stack-room of the Museum building, where it can be consulted in connection with the extensive supplementary collection now owned by the New York Botanical Garden. The University Library now contains about 5000 bound volumes pertaining to Botany, together with about 4000 pamphlets and extracts; the Garden library supplements this by over 7000 volumes. These numbers, however, do not represent the whole reference strength of the collection, for all general works, scientific journals, and the publications of general scientific societies are shelved in the main Library of the University. All the regularly published journals devoted to Botany proper (about seventy-five) are received and the sets of all are complete.

Two series of publications are issued from the department: a quarto series known as the *Memoirs of the Department of Botany*, of which two volumes have been published; and the *Contributions from the Department of Botany*, in octavo, which have nearly completed the eighth volume.

### Chemistry

- CHARLES F. CHANDLER, M.D., Ph.D., LL.D., D.Sc. . . . . *Professor of Chemistry*
- CHARLES E. PELLEW, E.M. . . . . *Adjunct Professor of Chemistry*
- EDMUND H. MILLER, Ph.D. . . . . *Adjunct Professor of Analytical Chemistry and Assaying*
- MARSTON TAYLOR BOGERT, A.B., Ph.B. . . . . *Adjunct Professor of Organic Chemistry*
- J. LIVINGSTON RUTGERS MORGAN, Ph.D. . . . . *Adjunct Professor of Physical Chemistry*
- JAMES S. C. WELLS, Ph.D. . . . *Instructor in Analytical Chemistry (Qual.)*
- HERMAN T. VULTÉ, Ph.D. . . . . *Instructor in Chemistry (School of Medicine)*
- HENRY C. SHERMAN, Ph.D. . . . . *Instructor in Analytical Chemistry*
- MARGARET E. MALTBY, Ph.D. . *Instructor in Chemistry (Barnard College)*
- LOUIS H. LAUDY, Ph.D. . . . . *Tutor in Chemistry*
- SAMUEL A. TUCKER, Ph.B. . . . . *Tutor in Industrial Chemistry*
- GEORGE A. GOODELL, A.M. . . . *Tutor in Chemistry (School of Medicine)*
- CAVALIER HARGRAVE JOÛET, Ph.D. . . . *Tutor in Analytical Chemistry*
- EVERETT J. HALL . . . . . *Tutor in Analytical Chemistry (Assaying)*
- VICTOR J. CHAMBERS, Ph.D. . *Tutor in Organic Chemistry and Lecturer in Organic Chemistry (Barnard College)*
- C. A. ERNST, Ph.D. . . . . *Tutor in Chemistry*



WILLIAM C. UHLIG, B.S.... *Assistant in Chemistry (School of Medicine)*  
JOSEPH LOUIS DANZIGER, B.S..... *Assisant in Analytical Chemistry*  
*(Quant.)*

HENRY A. JACKSON, B.S.....Assistant in Physical Chemistry

CHARLES H. ELLARD, A.M. . . . *Assistant in Analytical Chemistry (Qual.)*

FRANK E. HALE, Ph.D. . . . . Assistant in Analytical Chemistry (Qual.)

ELEANOR KELLER, A.B. . . . . *Lecturer in Chemistry (Barnard College)*

For all detailed information in regard to the courses, subjects discussed, pre-requisites, etc., refer to the special Announcement of the School of Chemistry.

None of the Courses in Chemistry given in Havemeyer Hall are open to women.

Courses 4, 17, 18, 19, 26, 27, 28, 33, 35 are open as minors for A.M.

Courses 4, 9, 13, 16, 22, 33, 35 are open as majors for A.M.

Courses 4, 13, 16, 17, 18, 22, 27, 28 are open as minors for Ph.D.

Courses 5, 8, 14, 15, 23, 29 are open as majors for Ph.D.

All courses except 5, 8, 13, 14, 15, 16, 18, 22, 23, 25, 28, 29, 33, 35, 36 are open to properly qualified students of Columbia College.

## Courses

6—General elementary chemistry. 2 lectures, 1 recitation, and 2 afternoons laboratory practice, one half-year. Given both half-years.  
Dr. ERNST

1—General inorganic chemistry. 3 lectures and 1 recitation. Professor CHANDLER, Dr. LAUDY, Mr. TUCKER, and Dr. ERNST

2—General inorganic chemistry. 2 lectures a week. Given at the School of Medicine in West 59th Street. Professor PELLEW and Mr. UHLIG. 2 afternoon exercises in the laboratory and 2 conferences a week for half the year. Half the class during the first half-year; the other half during the second half-year. Dr. VULTÉ, Mr. GOODELL, and Mr. UHLIG.

10—Advanced inorganic chemistry. 2 lectures. Professor PELLEW

3—Elementary physical chemistry. 3 hours a week in lectures and recitations, and 4 hours a week in the laboratory. Professor MORGAN

4—Physical chemistry. 3 hours a week in lectures and recitations throughout the year, and 1 afternoon a week in the laboratory, first half-year. Professor MORGAN

**5**—Physical chemistry, advanced course. 2 lectures, and at least 12 hours a week in the laboratory. Professor MORGAN

7—Qualitative analysis. 2 lectures or conferences a week during the first half-year, 4 lectures or conferences for chemists and metallurgists during second half-year, 2 lectures or conferences for other courses and laboratory practice. Dr. WELLS, Mr. ELLARD, and Dr. HALE

8—The spectroscope as applied to qualitative and quantitative analysis. 20 hours a week. Dr. WELLS

9—Quantitative analysis for chemists. 4 hours lectures and recitations a week, and 18 hours laboratory practice. Professor MILLER and Dr. JOUËT

11—Quantitative analysis, inorganic, short course for electric engineers. 2 hours lectures and recitations a week, and 70 hours laboratory practice during the first half-year. Professor MILLER, Dr. JOUËT and Mr. DANZIGER

12—Quantitative analysis, inorganic, for mining engineers. 3 lectures and recitations a week during the second half-year, with laboratory practice 18 hours a week in the second half-year. Professor MILLER, Dr. JOUËT and Dr. SHERMAN

13—Quantitative analysis—Proximate organic and sanitary analysis for chemists. 2 lectures, 2 recitations, and laboratory practice 18 hours a week, first half-year. Dr. SHERMAN

14—Advanced inorganic analysis. 2 lectures a week. Laboratory practice 3 afternoons and Saturdays during the first half-year for students taking the course in Metallurgy, and the second half-year for students in the course of Analytical Chemistry, who elect this course in place of Course 15. Professor MILLER

15—Advanced proximate organic analysis for chemists. 2 lectures a week. Laboratory practice during the second half-year, 3 afternoons and Saturdays for students in the course of Analytical Chemistry, who elect this course in place of Course 14. Dr. SHERMAN

19—Quantitative analysis, short course. 8 hours conferences and laboratory work. Mr. DANZIGER

16—Quantitative analysis—Special methods, gravimetric, volumetric, and electrolytic. Conferences and laboratory work at least 16 hours a week. Professor MILLER

17—Assaying—Ores and metallurgical products. 2 lectures and conferences, and laboratory practice 16 hours a week during the first half-year for mining engineers and metallurgists; during the second half-year for chemists. Professor MILLER and Mr. HALL

18—Special methods of assaying ores, alloys, and furnace products—Comparison of methods and determination of losses. Conferences and laboratory work at least 8 hours a week for one half-year. Professor MILLER and Mr. HALL

20—Organic chemistry, elementary lecture course. 2 lectures a week. Dr. CHAMBERS

30—Organic chemistry, elementary laboratory course. 8 hours a week. Professor BOGERT and Dr. CHAMBERS

35—Organic Chemistry. General lecture course. 4 lectures and 1 recitation a week. Professor BOGERT and Dr. CHAMBERS

36—Organic Chemistry. Conferences. 2 hours a week. Professor BOGERT

33—Organic chemistry, general laboratory course. Fourth-year students in the School of Chemistry pursuing the analytical option; first half-year, 2 afternoons and Saturdays in the organic laboratory; second half-year, 2 afternoons; for those pursuing the industrial option, first half-year, 4 afternoons and Saturdays in the organic laboratory; for those pursuing the organic option, first half-year, 2 afternoons and Saturdays in the organic laboratory, second half-year every afternoon and Saturdays. Professor BOGERT and Dr. CHAMBERS

22—Advanced organic chemistry, laboratory courses. 12 hours per week. Professor BOGERT

23—Advanced organic chemistry, research. Professor BOGERT

24—Industrial chemistry, general course—3 lectures and 1 recitation a week. Professor CHANDLER, Professor PELLEW, and Dr. LAUDY

25—Industrial chemistry, special course for chemists. 3 lectures and 1 recitation for two years, one half the subject being discussed each year. Professor CHANDLER, Professor PELLEW, and Dr. LAUDY

26—Industrial chemistry, laboratory practice for chemists. 2 afternoons a week during the second half-year. Mr. TUCKER

27—Industrial chemistry, laboratory practice for chemists. Special applications. 2 afternoons a week during the first half-year. Professor PELLEW

28—Industrial chemistry, laboratory practice for chemists. Special applications. 5 afternoons a week during the second half-year. Mr. TUCKER

29—Industrial chemistry, advanced course for higher degrees. Original research. Personal instruction and laboratory work for one year. Professor PELLEW and Mr. TUCKER

34—Chemical microscopy. 2 hours laboratory practice a week. Professor PELLEW

#### Courses given at Barnard College

The following courses are given separately at Barnard College: 1, by Dr. MALTBY and Miss KELLER; 3, by Dr. MALTBY; 7, by Miss KELLER; 20 and 30 by Dr. CHAMBERS; and an advanced course in Organic Chemistry open as a minor for A.M. and Ph.D.

### Equipment

In Havemeyer Hall the Chemical Department is provided with ample space for its museum, lecture-rooms, and laboratories, and every convenience has been provided for both the instructors and students working in the general or special courses.

There are five chemical lecture-rooms, all fully supplied with apparatus and instruments, and equipped with pneumatic troughs, gas, pressure, exhaust, and electricity. The large chemical lecture-room on the ground floor contains 316 seats. Underneath the rear of this room is situated a large storeroom for lecture apparatus, and connected with it are convenient rooms for preparing the lecture experiments.

The museum of General Inorganic and Organic Chemistry and of the Chemical Arts, a large room occupying the whole left wing of the ground floor, contains the elements and all their more important compounds; representative sets of specimens of all classes of organic compounds; materials and products illustrating the chemical arts; and numerous models, pictures, and diagrams illustrating the various branches of chemistry.

The Qualitative and General Chemistry Laboratory is equipped with one hundred and twelve desks, each divided into two sections, for use by different students, and each equipped with sink, water, gas, exhaust, and electric light. The laboratory has been entirely refurnished with sets of imported reagent bottles.

The Quantitative Laboratory is equipped with eighty desks, each one provided with gas, water, pressure, exhaust, and electricity, besides electric lights. Attached to the main laboratory is a large and well-equipped balance room, containing accurate balances, and special rooms which are provided with the latest and most improved apparatus for gas, water, food, and electrolytic analysis.

The Organic Laboratory contains forty large desks, each one provided with water, gas, pressure, exhaust, and electricity. The laboratory is also provided with high- and low-pressure steam, and with special rooms for balances, pressure ovens, glass-blowing, combustions, and for advanced work in various directions. It is thoroughly equipped with all necessary apparatus and instruments for the determination of boiling-points, melting-points, specific gravities, vapor densities, elementary analyses, and for the synthetic preparation of organic compounds.

The Laboratory of Industrial Chemistry is equipped for the instruction of students in the practical operations of chemical manufactures and chemical industries, and in the solution of various important problems in sanitary chemistry and hygiene. It is equipped for the manufacture of pure chemicals from their raw materials on an industrial scale, with fine batteries of steam evaporators, and with steam stills, centrifugals, filter presses, crushers, and the like. It includes a dyeing laboratory, supplied with a large stock of the most important natural

and artificial dye-stuffs, and with all the regular equipment used in the practical testing of dyes, including a calico-printing machine. Connected with it is a photometer room, containing a new and complete outfit for the practical testing of lamps, burners, and illuminants.

A laboratory has been fitted up for the study of electrochemistry, provided with an electric furnace and other appliances for the pursuit of this important branch of industrial chemistry.

The Laboratory of Physical Chemistry is well equipped with the most recent apparatus adapted to a wide range of experimental work in the branches of heat, light, and electricity as applied to chemical problems.

The Assay Laboratory is provided with crucible and muffle furnaces, both gas and coal, for the fire assay of ores; also with crushing, pulverizing, and sampling machinery, balance room, storeroom, and thirty-six well-equipped working desks. It also contains all the apparatus necessary for the wet assay of silver bullion and for laboratory tests of ores.

Barnard College has new and well-equipped chemical laboratories, provided with every convenience for the work in the courses there offered.

The Chemical Library in Havemeyer Hall is supplied with an extensive collection of chemical books and journals, and is open from 9.00 A.M. to 5.00 P.M., and during the session of the University from 8 to 11 P.M.

## Chinese

(See Oriental Languages)

## Civil Engineering

WILLIAM HUBERT BURR, C.E.....	Professor
EARL BRINK LOVELL, C.E.....	Adjunct Professor
ADOLPH BLACK, C.E.....	Instructor
MYRON SAMUEL FALK, C.E., M.E.....	Tutor
CHARLES RAPELYEA WYCKOFF, Jr., C.E., A.M.....	Assistant

*A complete, detailed statement of all the subjects covered by this course of study, both those given in the Department of Civil Engineering and in other departments of the University, will be found in the Announcement of the Courses in Civil Engineering, which will be supplied, without cost, on application to the Secretary of the University.*

## Courses

1—Surveying—2 hours, second half, first year. Professor LOVELL and Mr. WYCKOFF

2—Road engineering—2 hours, first half, second year. Mr. FALK

3—Water supply and irrigation—2 hours, second half, fourth year. Mr. BLACK

4—Masonry structures—2 hours, third year. Professor LOVELL and Mr. FALK

5—Resistance of materials—3 hours, first half, third year; 2 hours, second half, third year. Professor BURR, Professor LOVELL, and Mr. WYCKOFF

6—Graphic statics—2 hours, second half, third year. Mr. FALK

7—Theory of trusses—2 hours, second half, third year. Mr. FALK

8—Sewage disposal—2 hours, first half, third year. Mr. BLACK

9—Railroad engineering—3 hours, fourth year. Professor LOVELL

10—Design of bridges and buildings—2 hours, fourth year. Professor BURR and Mr. FALK

11—Foundations—2 hours, first half of fourth year. Professor BURR

12—Hydraulics—2 hours, first half of fourth year. Mr. BLACK and Mr. FALK

12a—Pumps and pumping engines—Theory of mechanism. 2 hours, first half, fourth year. Mr. FALK

13—Sewers and harbors—2 hours, second half of fourth year. Professor BURR and Mr. BLACK

14—Theory of railroad surveying—3 hours, third year. Professor LOVELL

### The Summer Courses in Surveying

This school is conducted during sixteen weeks each summer vacation at a point in the country near Litchfield, Conn., where ample facilities are provided for all requisite operations, and where the topography is admirably adapted to the practical work of surveying. The operations at the summer school include the entire actual surveying of the department of Civil Engineering, together with such lectures, computations, and mapping as pertain to it. About six weeks' continuous attendance is required of each class between the first and second, and the second and third years, and four weeks between the third and fourth years. The school possesses an unusually full equipment of engineers' and solar transits, levels, plane tables, compasses, and all accessories and smaller instruments. A corps of special assistants for each session aid the regular officers of the school. At each session the following courses are given:

15—Surveying between the first and second years—Pacing, chaining, and ranging—Farm survey—Adjustment of instruments—Angle reading by repetition—Repetition traverse—Azimuth traverse. Daily lectures, field and office work. Professor LOVELL and Mr. WYCKOFF

**16**—Surveying between the second and third years—Levelling—Topographical survey with plane table—City surveys—Mine surveying above ground—Use of solar attachment. Daily lectures, field and office work. Professor LOVELL and Mr. WYCKOFF

**16a**—Hydrographic surveying—Triangulation—Topography on shore—Soundings—Current meter work—Computation of river or tidal discharge—Preparation of map. Professor LOVELL and Mr. WYCKOFF

**17**—Surveying between the third and fourth years—Railroad surveying—Reconnaissance—Preliminary survey—Location—Cross-sectioning—Computations—A complete survey and location of a line two to five miles long are made, with all the attendant computations requisite for placing the work under contract. Daily lectures, field and office work. Professor LOVELL

Graduation Thesis—A satisfactory project or thesis is required of every candidate for the degree of Civil Engineer at graduation.

### Courses in Sanitary Engineering

**18**—Sanitary engineering of buildings—2 hours, first half, second year. Mr. BLACK

**19**—General principles of hygiene and sanitary science—2 hours, second half, second year. Mr. BLACK

**20**—Heating and ventilation—2 hours, fourth year. Mr. FALK

**21**—Drainage of country districts and towns—2 hours, second half, fourth year. Mr. BLACK

### University Courses

The minor subjects in the department of Civil Engineering for the university degrees of Master of Arts and Doctor of Philosophy are the following:

**5**—Elasticity and resistance of materials.

**22**—Foundations, including theory of earth pressure (Civil Engineering **11** with additional reading).

**23**—Hydraulics (Civil Engineering **12** with additional reading).

**24**—Long-span bridges. Conferences, with reading and design work, as required.

Open to those who have taken Civil Engineering **10**.

**25**—Elastic and masonry arches. Conferences, with reading and design work, as required.

Open to those who have taken Civil Engineering **4**.

The major subjects for the same university degrees are the following:

26—Sanitary engineering.

27—Hydraulic engineering, including the hydraulics of rivers and power plants and municipal water-works.

28—Municipal engineering, including water-works, sewers and sewage works, streets and other public works and their administration.

29—The engineering of structures, including long-span bridges and deep foundations, with methods of building them, and advanced work in elasticity and resistance of materials.

### Equipment

The department possesses an unusually full equipment of engineers' and solar transits, levels, plane tables, compasses, and all accessories, as well as smaller instruments. Current meters, hook gauges, and floats of various types are also used in making observations on the flow in and discharge of rivers and canals. A complete set of sections of iron and steel shapes, models and photographs of engineering works, together with working plans of the latter, are in the department for the use of students. The hydraulic laboratory affords opportunity for the practical operations of measuring the discharge through weirs and other orifices, the flow through open channels and closed pipes, frictional and other resistances in pipes and open channels, as well as for meter gaugings, and for general hydraulic investigations. The testing work in the mechanical laboratory includes the complete tests of various structural materials in tension, compression, bending, and torsion, including the observation and digesting of all corresponding data.

A cement-testing laboratory is fully equipped with testing machines, briquette moulds, tanks, and other apparatus requisite for all classes of investigations in the nature and physical properties of cements and cement mortars. All students are required to make and test briquettes of cement and cement mortar as well as to ascertain the weight, fineness, and other physical properties of such cement, sand, and mortar as may be assigned to them for examination.

Students taking the course of Civil Engineering enjoy the use of the laboratories in all of the departments of the University in which they pursue courses of study, and their laboratory work in those departments is identical with that of students taking courses of engineering study in the same departments.

The workshops used by the students in Civil Engineering are located in the Macy Manual Arts Building of Teachers College. The other laboratories used by students in the department of Civil Engineering, and in which extended courses of work are given, are those of the departments of Physics, Mechanical Engineering, and Electrical Engineering. Complete descriptions of these laboratories will be found in the circulars of their respective departments.

In addition to the actual equipment of the school, a great variety of



large engineering works is continually in process of construction in New York City and vicinity, and the requisite steps are always taken to render them accessible to the students of the department for examination and study.

The library facilities consist of an extensive collection of foreign and domestic engineering books and periodicals, to which additions are being constantly made. The collection of engineering literature forms a part of the general Library of the University, and is constantly available for both undergraduate and post-graduate study.

### Clinical Instruction

*in Dermatology, Genito-Urinary Diseases, Laryngology, Ophthalmology, Orthopedic Surgery, and Otology. For Clinical instruction in Medicine, Surgery, Gynecology, Neurology, and Diseases of Children details will be found under the general heading of these departments.*

GEORGE MOREWOOD LEFFERTS, M.D., M.Sc.. *Professor of Laryngology*  
 GEORGE HENRY FOX, A.M., M.D. . . . . *Professor of Dermatology*  
 ALBERT H. BUCK, M.D. . . . . *Professor of Otology*  
 VIRGIL P. GIBNEY, M.D., LL.D. . . . . *Professor of Orthopedic Surgery*  
 ROBERT W. TAYLOR, M.D. . . . . *Professor of Genito-Urinary Diseases*  
 ROYAL WHITMAN, M.D. . . *Chief of Clinic and Instructor in Orthopedic Surgery*  
 JAMES R. HAYDEN, M.D. . . . . *Chief of Clinic and Instructor in Genito-Urinary Diseases*  
 WILLIAM COWEN, M.D. . . . . *Chief of Clinic and Instructor in Otology*  
 ROBERT LEWIS, Jr., M.D. . . . . *Instructor in Otology*  
 CHARLES H. MAY, M.D. . . . . *Chief of Clinic and Instructor in Ophthalmology*  
 JOHN HERBERT CLAIBORNE, M.D. . . . . *Instructor in Ophthalmology*  
 GEORGE THOMAS JACKSON, M.D. . . . . *Chief of Clinic and Instructor in Dermatology*  
 WILLIAM K. SIMPSON, M.D. . . . . *Chief of Clinic and Instructor in Laryngology*  
 RICHARD FROTHINGHAM, M.D. . . . . *Instructor in Laryngology*

### Clinical Assistants

#### *In Orthopedic Surgery*

LOUIS R. WELZMILLER, M.D.      CHARLTON WALLACE, M.D.  
 RUSSELL PEMBERTON, M.D.      CHARLES H. JAEGER, M.D.  
 SHIRLEY E. SPRAGUE, M.D.

#### *In Otology*

ALLAN G. TERRELL, M.D.      MATHEW L. CARR, M.D.  
 ALFRED MICHAELIS, M.D.

*In Dermatology*

JOHN H. P. HODGSON, M.D.  
JOHN ALDRICH, M.D.

CHARLES T. DADE, M.D.  
S. DANA HUBBARD, M.D.

*In Ophthalmology*

HENRY H. TYSON, M.D.

WARD A. HOLDEN, M.D.

EDWARD B. COBURN, M.D.

*In Laryngology*

ARTHUR P. COLL, M.D.

JOHN LESHURE, M.D.

LEE M. HURD, M.D.

SAMUEL W. THURBER, M.D.

JOSEPH E. FULD, M.D.

PAUL F. SONDERN, M.D.

JONATHAN DWIGHT, Jr., M.D.

F. CONGER SMITH, M.D.

JOHN J. MCCOY, M.D.

C. D. VAN WAGENEN, M.D.

*In Genito-Urinary Diseases*

WILLIAM C. GILLEY, M.D.

WALTER D. TRENWITH, M.D.

JOHN B. STEIN, M.D.

W. S. REYNOLDS, M.D.

EDMUND Y. HILL, M.D.

FELLOWES DAVIS, M.D.

S. W. FOWLER, M.D.

JAMES R. WHITING, M.D.

WALTER B. BROUNER, M.D.

The following courses are required of candidates for the degree of M.D.:

In the third year, Genito-Urinary Diseases 1, 2, 3; Ophthalmology 1, 2, 3; Otology 1, 2.

In the fourth year, Dermatology 1, 2; Laryngology 1, 2, 3; Orthopedic Surgery 1, 2.

The following is optional:

In the fourth year, Orthopedic Surgery 3.

*Full information regarding these courses and the equipment of the University for this work will be found in the Announcement of the College of Physicians and Surgeons for 1902-03. All communications regarding them should be addressed to the Secretary of the Faculty of Medicine, 437 W. 59th Street.*

**Courses****In Dermatology**

1—Clinical lectures at the Vanderbilt Clinic upon the diseases of the skin. 1 hour. Professor Fox

2—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of the diseases of the skin. 10 lessons for each student. Dr. JACKSON

### In Genito-Urinary Diseases

1—Genito-Urinary diseases—Clinical lectures at the Vanderbilt Clinic. 2 P.M., Thursday. 1 hour. Professor TAYLOR

2—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of genito-urinary diseases—10 lessons for each student. Dr. HAYDEN

3—Hospital clinics in genito-urinary diseases—Bellevue Hospital, Tu. at 3.30 P.M. throughout the academic year. Professor TAYLOR

### In Laryngology

Instruction in the department of Laryngology (including diseases of the larynx, pharynx, and nasal passages) is both didactic and clinical. It comprises:

1—A systematic course of didactic lectures, which for convenience in teaching and economy of time is given to the fourth-year students collectively in the amphitheatre of the Vanderbilt Clinic.

Both the subjects and the dates of these lectures, each of which is, as far as possible, complete in itself, are announced in printed form at the beginning of the session, and a copy furnished each student in attendance. 1 hour a week for twenty-eight weeks. M. at 2 P.M. Professor LEFFERTS

1—Practical clinical instruction in the Laryngological Hall of the Vanderbilt Clinic to sections of the class in the use of the laryngoscope, rhinoscope, and tongue spatula, and in the laryngoscopic and posterior rhinoscopic examination of both normal and pathological cases, all under the direct and personal supervision of the Instructor. Dr. SIMPSON

3—Individual clinical demonstrations, at which, during his course of "section" teaching, each student has demonstrated to him, by the instructor, a certain number of pathological cases, special attention being given to the questions of general diagnosis, differential and bacteriological diagnosis, and treatment. Dr. FROTHINGHAM

### In Ophthalmology

1—Clinical lectures, at the Vanderbilt Clinic, upon the diseases of the eye—In selected cases the diagnosis is made, treatment applied, and minor operations are performed before the class.

Before and after the lectures, as opportunity offers, microscopic demonstrations of the pathological histology of the eye are made by Dr. HOLDEN. 1 hour, Tu. at 2 P.M.

2—Practical instruction, at the Vanderbilt Clinic, in the use of the ophthalmoscope and oblique illumination. 5 lessons for each student. Dr. MAY

3—Practical instruction, at the Vanderbilt Clinic, in the determination of the acuteness of sight, field of vision, color perception, refraction, accommodation, and motility of the eye. 5 lessons for each student. Dr. CLAIBORNE

### In Orthopedic Surgery

1—Clinic in orthopedic surgery and diseases of the joints at the Vanderbilt Clinic. 1 hour a week. F. at 12. Professor GIBNEY

2—Practical instruction at the Vanderbilt Clinic to classes of 20 members each. 10 lessons. Dr. WHITMAN

3—Operations at the Hospital for Ruptured and Crippled. Tu. at 8.30 A.M. Professor GIBNEY

### In Otology

1—Practical instruction in the diagnosis of the diseases of the ear at the Vanderbilt Clinic. 8 lessons for each student. Sections of ten men each, Mondays and Fridays at 2 P.M. Drs. COWEN and LEWIS

Didactic instruction in pathology and therapeutic methods at the Vanderbilt Clinic. 4 lectures for each student. Sections of twenty men each, on Wednesdays at 2 P.M. Professor BUCK

### Comparative Literature

GEORGE EDWARD WOODBERRY, A.B. ....	<i>Professor</i>
JOEL ELIAS SPINGARN, Ph.D. ....	<i>Tutor</i>
FRANK WADLEIGH CHANDLER, Ph.D. ....	<i>Lecturer</i>
GEORGE HENRY DANTON, A.B. ....	<i>Assistant</i>

Courses 2 and 5 are open to students of the College, each counting three points toward the degree of A.B. They cannot be counted toward the higher degrees, and are not open to women.

Courses 6, 7, 8, 10, and Seminars A, B, and C, are open only to graduate students, both men and women, and may all be counted toward the higher degrees. Courses 7, 8, and 10 are pre-requisite for admission to any of the Seminars of this department. Candidates for the degree of Ph.D. in this department are required to take Courses 7, 8, and 10 in their first year, and Seminars A, B, and C in their second year of residence.

Courses 7, 8, and 10 may be offered as a full minor, and Seminars A, B, and C as a partial minor or major for Ph.D.

### Courses

2—English literature from 1789 to the death of Tennyson, with some attention to Romanticism on the continent. 3 hours. Professor WOODBERRY

5—The theory, history, and practice of criticism, with special attention to Aristotle, Boileau, Lessing, and English and later French writers, with illustrations from works of imagination. 3 hours. Professor WOODBERRY

[6—Studies in literature, mainly critical. 3 hours. Professor WOODBERRY. Omitted 1902-03]

7—History of lyric poetry in the Middle Ages and the Renaissance. 3 hours. Dr. SPINGARN

8—The revival of Romanticism in the eighteenth century. 3 hours. Dr. CHANDLER

10—The Italian Renaissance and the diffusion of its influence throughout Europe. 3 hours. Dr. SPINGARN

Seminar A—Subjects for 1902-03: Oriental poetry in modern literature. 2 hours. Professor WOODBERRY

Seminar B—Subject for 1902-03: The tradition of chivalry in modern literature. 2 hours. Dr. SPINGARN

Seminar C—Subjects for 1902-03: I. Studies in Spanish literature, its characteristics and national traits, together with an examination of the diffusion of its influence through Europe. II. Calderon: the elements of his genius and the history of his theatre. 2 hours. Dr. CHANDLER

### Equipment

The officers of the department have given much attention to the requirements of their courses in the matter of learned publications, the books of specialists in literary topics, the particular collections grouped about great authors, and the rarer literature of the world of letters. The general subject of literary history and criticism and the latest phases of literary scholarship are well represented in the Library, and those subjects with which the courses directly deal are represented with unusual fulness. A special effort has been made to gather beforehand the literature of subjects for research, so that there may be no delay in providing such material. In the last few years several thousand volumes have been purchased by the head of the department with a particular view to the needs of students, and it is believed that, within the limits of study, the collections are ample; and whatever books prove to be required will be at once obtained. Substantially all periodicals of the literary or learned world are currently received, and in files of such publications, transactions of societies, and the like the Library is uncommonly rich, as well as in foreign dissertations. These are the treasuries of information for minute research. In the Library a special study room is provided for the department, in immediate communication with the books relating to its specific subject. In this room the seminars of the department are held.

## Diseases of Children

ABRAHAM JACOBI, M.D., LL.D. .... *Emeritus Professor*

L. EMMETT HOLT, M.D., LL.D. .... *Professor*

LINNAEUS EDFORD LA FETRA, M.D. .... *Chief of Clinic and Instructor*

LOUIS M. SILVER, M.D. .... *Clinical Assistant*

ALBERT F. BRUGMAN, M.D. .... *Clinical Assistant*

BERNARD SOUR, M.D. .... *Clinical Assistant*

ROBERT H. MCCONNELL, M.D. .... *Clinical Assistant*

JOHN HOWLAND, M.D. .... *Clinical Assistant*

## Courses

Course 1 is required in the third year, and Courses 2, 3, and 4 in the fourth year, of candidates for the degree of M.D.; Course 5 is optional in the fourth year.

1—Didactic lectures at the College upon infant feeding and disorders of nutrition. 1 hour. Saturday at 12 M., from February to May. Professor HOLT.

2—Clinical lectures at the Vanderbilt Clinic upon the diseases of children. 1 hour. Wednesday at 2 P.M. Professor HOLT.

3—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of the diseases of children. 10 lessons for each student. Dr. L. E. LA FETRA.

4—Hospital clinics at Foundling or Babies' Hospital, Tuesdays at 2 P.M., October to May. Fridays 3.15 P.M. October to January. Professor HOLT.

5—Hospital clinic—Roosevelt Hospital, Mondays and Thursdays at 5 P.M. from October to May. Professor JACOBI.

## Economics and Social Science

EDWIN R. A. SELIGMAN, LL.B., Ph.D. .... *Professor*

FRANKLIN HENRY GIDDINGS, Ph.D., LL.D. .... *Professor*

JOHN BATES CLARK, Ph.D., LL.D. .... *Professor*

HENRY ROGERS SEAGER, Ph.D. .... *Adjunct Professor*

HENRY LUDWELL MOORE, Ph.D. .... *Adjunct Professor*

ALVIN SAUNDERS JOHNSON, A.M. .... *Tutor*

GEORGE J. BAYLES, Ph.D. .... *Prize Lecturer*

ELSIE CLEWS PARSONS, Ph.D. .... *Lecturer (Barnard College)*

*For more detailed statement of the scope of each course see the Announcement of the Faculty of Political Science.*

The courses offered fall into two divisions: Political Economy and Finance, and Sociology and Statistics. Economics A and 1 are the general introductory courses primarily intended for juniors in Columbia

and Barnard Colleges. Economics 3 to 8 and 11 to 12 will be found of especial value to law students seeking to supplement their purely legal studies. Sociology 15 and 16 are introductory courses leading up to Sociology 20 and 21. Sociology 20 and 21 are the general systematic courses laying the basis for the other courses in applied sociology. Sociology 15 to 24, together with Economics 6, 8, 11, and 12, will be of value to students of theology who wish to extend their knowledge of the social problems of the day.

In addition to the regular courses, there are two seminars, organized to furnish students opportunity for special investigation and original research. Every candidate for the degree of Master of Arts or Doctor of Philosophy, taking his major subject in this department, must work in at least one of the seminars.

The allied courses in history and public law will be found extremely useful for the students of social science, because of the close inter-relations of history, law, and economics. Taken together, these courses constitute a complete scheme of political science.

Economics A is required of juniors in Columbia and Barnard Colleges, and open to sophomores who have taken Economics 1. Economics 1 is open to juniors and qualified sophomores. Economics 2, 3, 4, 6, 11, and 12, and Sociology 15 and 16, are open to seniors and other candidates for the degree of Bachelor of Arts. The remaining courses are intended for university students. Courses corresponding to Economics A, 1, 2, 3, 6, 11, and 12 and Sociology 15 are given separately at Barnard College, and by the same instructors unless otherwise noted. Sociology 16 is given only at Barnard.

Economics 5, 7, 8, 9, 10, 13, 14, and Sociology 17, 18, 19, 20, 21, 22, 24, and 30 are open to graduate women students upon the same terms as to men.

Economics 2, 3, 4, 6, 11, 12, and Sociology 15 may be counted towards the degree of Master of Arts or Doctor of Philosophy only when such additional work is taken in connection with them as may be prescribed by the instructor in charge.

All the courses are open to auditors, but of these, Economics 5, 7, 8, 9, 10, 13, 14, and Sociology 17, 18, 19, 20, 21, 22, 24, and 30 only are open to women, and then only if they are graduate students.

### Courses in Political Economy and Finance

A—Outlines of economics—Recitations, lectures, and essays. 3 hours, second half-year. Professor SELIGMAN, Professor SEAGER, and Mr. JOHNSON

Given at Barnard the first half-year, by Professor MOORE and Mr. JOHNSON

I—Economic history of England and America—Selected text-books, recitations, essays, and lectures. 3 hours, first half-year. Professor SELIGMAN and Mr. JOHNSON

Given at Barnard the second half-year by Professor MOORE and Mr. JOHNSON

2—Economic readings—Reading, discussions, lectures, and essays. 2 hours. Professor SEAGER and Professor MOORE  
Given at Barnard by Professor MOORE.

3—Money and trade—Lectures, discussions, and reading. 2 hours first half-year. Professor MOORE

4—Science of finance—Lectures and private reading. 2 hours. Professor SELIGMAN

Courses 3 and 4 are combined at Barnard under the name of Practical Economics, and are given as a 2-hour course during the second half-year by Professor SEAGER

[5—Fiscal and industrial history of the United States—Lectures and private reading. 2 hours, first half-year. Professor SELIGMAN. Omitted in 1902-03.]

6—The labor problem—Lectures and private reading. 2 hours, second half-year. Professor SEAGER

Given at Barnard the first half-year.

[7—Railroad problems, economic, social, and legal—Lectures and private reading. 2 hours, second half-year. Professor SELIGMAN. Omitted in 1902-03.]

8—History of political economy—Lectures, discussions, and readings. 2 hours. Professor SELIGMAN.

9—Economic theory I—The static laws of distribution—Lectures and private reading 2 hours, first half-year. Professor CLARK

10—Economic theory II—The dynamic laws of distribution—Lectures and private reading. 2 hours, second half-year. Professor CLARK

11—Communitistic and socialistic theories—Lectures and private reading. 2 hours, first half-year. Professor CLARK

12—Theories of social reform—Lectures and private reading. 2 hours, second half-year. Professor CLARK

13—Theories of consumption—Lectures and private reading. 2 hours, second half-year. Mr. JOHNSON

14—Seminar in political economy and finance. 2 hours. Professors SELIGMAN and CLARK

### Courses in Sociology and Statistics

15—Principles of sociology—Recitations, lectures, and collateral reading. 2 hours. Professor GIDDINGS

16—Family organization—Lectures and house-to-house observation. Bi-weekly, 1 hour. Dr. ELSIE CLEWS PARSONS  
At Barnard College only

17—Theory of statistics—Lectures and laboratory. 2 hours, first half-year. Professor GIDDINGS

18—Social statistics—Lectures and laboratory. 2 hours, second half-year. Professor GIDDINGS



19—Economic statistics—Lectures and laboratory. 2 hours, second half-year. Professor SEAGER

20—Social evolution, ethnic and civil origins—Lectures and private reading. 2 hours, first half-year. Professor GIDDINGS

21—Social evolution—Civilization, progress and democracy—Lectures and private reading. 2 hours, second half-year. Professor GIDDINGS

22a—Pauperism, poor laws, and charities—Lectures and private reading. 2 hours, first half-year. Professor SEAGER

22b—Crime and penology—Lectures as in 22a and private reading with Professor GIDDINGS

24—Civil aspects of ecclesiastical organization—Lectures and private reading. 1 hour. Dr. BAYLES

30—Seminar in sociology—2 hours, bi-weekly. Professor GIDDINGS

### Equipment

The Library facilities are unexcelled. Every journal of importance, American or foreign, dealing with economics or social science, is taken regularly by the Library. Any book needed by advanced students can usually be bought at once. The special library of history and political science alone comprises more than seventy thousand volumes.

Students of economics and social science will find New York to be a centre of library facilities unrivalled elsewhere in this country. In addition to the University Library, there are rich treasures at the New York Public Library on the Astor, Lenox, and Tilden foundation, New York Historical Library, Long Island Historical Library, Library of the Charity Organization Society, the Bar Association Library, and the Law Institute Library, to each of which students have access under favorable conditions. Advanced students also have at their disposal the library of the Professor of Political Economy and Finance, which contains the most complete collection of works on economics to be found in the United States.

The facilities offered to students of sociology include a large library of general and special works, and unusual opportunities for field work. A generous gift for works on sociology has provided a very complete equipment of publications on sociological theory, the history of the family, pauperism, crime, and penology. Arrangements have been made with the Charity Organization Society, the State Charities Aid Association, the University Settlement, the East-Side House, and the Brooklyn Bureau of Charities by which students can become fully acquainted with actual work among the people and with the most perfect methods.

The Statistical Laboratory, conducted by Professors GIDDINGS and SEAGER, is equipped with the Hollerith tabulating machines, comptometers, and all other modern facilities.

## Education

Teachers College is officially designated as the Department of Education of Columbia University. In the section of the catalogue devoted to Teachers College (see Table of Contents) will be found a list of its officers and a statement of its equipment for instruction and research in education.

The following courses are open to students of Columbia College and Barnard College, and to University students. All courses are open to men and women on equal terms.

1. Courses in the several departments open to all undergraduate students are designated by the numbers **1-9** inclusive.

2. Courses open to juniors and seniors only are designated by the numbers **10-49** inclusive. All courses in this group must be preceded or paralleled by Psychology **A** and Education **10**.

3. Courses open to seniors and graduates only are designated by the numbers **50-99** inclusive. All courses in this group must be preceded or paralleled by Psychology **A**, Education **10**, and Education **50**.

4. Courses open to graduate students only are designated by the number **100** and above.

*A full statement of the nature of each course, the work pre-requisite to it, and the credit which may be received for it in partial fulfilment of the requirements for the several degrees and diplomas, will be found in the current edition of the Announcement of Teachers College, which may be had, without charge, upon application to the Secretary of Teachers College.*

## History and Philosophy of Education

**50**—History and principles of Education—Lectures, required readings, reports, and discussions. 3 hours. Professor MONROE and Dr. MACVANNEL

**52**—Modern educational theory—Lectures, readings, and discussions. 2 hours. Dr. MACVANNEL

**100**—Practicum—Sources in the history of education. 2 hours. Professor MONROE

**101**—Seminar—History of education. 1 hour. Professor MONROE

**102**—Practicum—Philosophy of education. Lectures, reports, and discussions. 2 hours. President BUTLER and Dr. MACVANNEL

**103**—Seminar—Philosophy of education. President BUTLER and Dr. McVANNEL

## Educational Administration

**54**—School administration—Lectures, essays, and discussions. 2 hours. Professor DUTTON

**104**—Practicum—Administration of public education in the United States. 2 hours. Professor DUTTON

105—Seminar—Educational administration. Dean RUSSELL and Professor DUTTON

106—Practicum—Foreign school systems. 2 hours. Dean RUSSELL

### Educational Psychology

A—Elements of psychology. First half-year. }

10—Educational psychology. Second half-year. }

Lectures, practical exercises, and recitations. 3 hours. Professor THORNDIKE

12—Child study—Observation, experiments, private reading, and conferences. 2 hours. Professor THORNDIKE and Miss NORSWORTHY

59—Genetic psychology—Advanced course. 2 hours. Professor THORNDIKE and Miss NORSWORTHY

108—Practicum—The application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE

109—Seminar—Genetic and comparative psychology. Professor THORNDIKE

### Secondary Education

57—Secondary education—Lectures, discussions, and reports. 2 hours. Professor SACHS

116—Practicum—The secondary school curriculum. 2 hours. Professor SACHS

117—Seminar in secondary education. Professor SACHS

60—Theory and practice of teaching biology in the secondary school.—Lectures, discussions, and practical work. 3 hours. Professor LLOYD and Dr. BIGELOW

120—Practicum in botany and zoölogy. A critical study of the materials and methods employed in the teaching of botany and zoölogy. 2 hours. Professor LLOYD and Dr. BIGELOW

62—Theory and practice of teaching domestic art—Lectures, conferences, and practical work. 3 hours. Professor WOOLMAN

63—Supervision and critic teaching in domestic art—Conferences and practical work. 2 hours. Professor WOOLMAN

64—Theory and practice of teaching domestic science—Lectures, conferences, and practical work. 2 hours. Professor KINNE

65—Supervision and critic teaching in domestic science—Conferences and practical work. 2 hours. Professor KINNE

66—Theory and practice of teaching English in secondary schools—Lectures, reading, written work, observation, and practice-teaching. 3 hours. Professor BAKER

126—Practicum in English. 2 hours. Professor BAKER

68—Theory and practice of teaching art—Lectures, conferences, observation, and practical work. 3 hours. Professor CHURCHILL

70—Theory and practice of teaching French in secondary schools—Lectures, essays, discussions, reports of observation, and practice teaching. 2 hours. Dr. **BAHLEN**

72—Theory and practice of teaching geography in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor **DODGE** and Miss **KIRCHWEY**

132—Practicum in geography. 2 hours. Professor **DODGE**

74—Theory and practice of teaching German in secondary schools—Lectures, essays, discussions, reports of observation, and practice teaching. 3 hours. Dr. **BAHLEN**

76—Theory and practice of teaching Greek in secondary schools—Lectures, reports, and practical work. 3 hours. Professor **LODGE**

136—Practicum in Greek. 2 hours. Professor **LODGE**

78—Theory and practice of teaching history in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor **SALMON**

138—Practicum in history. 2 hours. Professor **SALMON**

82—Theory and practice of teaching Latin in secondary schools—Lectures, reports, and practical work. 3 hours. Professor **LODGE**

142—Practicum in Latin. 2 hours. Professor **LODGE**

84—Theory and practice of teaching manual training—Discussions, collateral reading, observation, and practical work. 3 hours. Professor **RICHARDS**

85—Organization of manual training—Discussions, essays, and investigation. 2 hours. Professor **RICHARDS**

86—Theory and practice of teaching mathematics in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor **SMITH**

146—Practicum in the history and teaching of mathematics. 2 hours. Professor **SMITH**

88—Theory and practice of teaching music—Lectures and practical work. 3 hours. Professor **FARNSWORTH**

90—Theory and practice of physical education—Lectures, readings, reports, and practical work. 3 hours. Professor **WOOD**

150—Practicum in physical education. 2 hours. Professor **WOOD**

92—Theory and practice of teaching physical science in secondary schools—Laboratory exercises, observation, and practical work. 3 hours. Professor **WOODHULL**

### Elementary Education

15—General method and practice teaching—Observation, conferences, and practical work. 3 hours. Professor **McMURRY** and assistants

16—Primary and kindergarten teaching—Lectures, observation, and practical work. 2 hours. Miss O'GRADY

55—Supervision, critic work, and experimental teaching. 3 hours. Professor McMURRY

114—Practicum—The curriculum of the elementary schools. 2 hours. Professor McMURRY

115—Seminar—Problems in the theory and practice of elementary teaching. Professor McMURRY

20—Theory and practice of teaching nature study in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor LLOYD

62—Theory and practice of teaching domestic art—Lectures, conferences, and practical work. 3 hours. Professor WOOLMAN

63—Domestic art—Supervision and critic teaching in domestic art. Conferences and practical work. 2 hours. Professor WOOLMAN

64—Theory and practice of teaching domestic science—Lectures, conferences, and practical work. 2 hours. Professor KINNE

65—Supervision and critic teaching in domestic science—Conferences and practical work. 2 hours. Professor KINNE

26—Theory and practice of teaching English in elementary schools—Lectures, recitations, and private reading. 2 hours. Professor BAKER

68—Theory and practice of teaching art—Lectures, conferences, observation, and practical work. 3 hours. Professor CHURCHILL

32—Theory and practice of teaching geography in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor DODGE and Miss KIRCHWEY

38—Theory and practice of teaching history in elementary schools—Lectures, conferences, reference work, and practical work. 2 hours. Professor SALMON

16—Primary and kindergarten methods—Observation, discussions, written reports, and lectures. 2 hours. Miss O'GRADY

80—Theory and practice of kindergarten teaching—Lectures, discussions, and practical work. 3 hours. Professor RUNYAN

81—Kindergarten supervision and critic teaching. 2 hours. Professor RUNYAN and Miss O'GRADY

84—Theory and practice of teaching manual training—Discussions, collateral reading, observation, and practical work. 3 hours. Professor RICHARDS

85—Organization of manual training—Discussions, essays, and investigation. 2 hours. Professor RICHARDS

46—Theory and practice of teaching mathematics in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor SMITH

88—Theory and practice of teaching music—Lectures and practical work. 3 hours. Professor FARNSWORTH

49—School hygiene—Lectures, demonstrations, collateral reading, reports, and practical work. 2 hours. Professor WOOD

### Electrical Engineering

FRANCIS B. CROCKER, E.M., Ph.D. . . . . *Professor*  
 GEORGE FRANCIS SEVER. . . . . *Adjunct Professor*  
 FITZHUGH TOWNSEND, A.B., E.E. . . . . *Tutor*  
 FRANCIS JOSEPH WHITE, E.E. . . . . *Assistant*

*For full information as to the scope of the work in Electrical Engineering, students are referred to the Announcement of the Course in Electrical Engineering, which may be obtained from the Secretary of the University.*

The theoretical side of Electrical Engineering is treated in lectures delivered by Professor PUPIN of the department of Mechanics, under which head the various courses will be found. Mr. TOWNSEND assists the department of Mechanics by teaching Course 6 and part of Course 7 of that department.

See Mechanics 6, 7, 8, 9, 14, 14a, 15, 16, and 17.

Course 7 is required of second-year students in Electrical, Mechanical, and Civil Engineering, and is open to seniors of the College.

Courses 1 and 4 are required of third-year students in Electrical and Mechanical Engineering.

Course 10 is required of third-year students in Electrical Engineering.

Courses 6 and 15 are required of third-year students in Electrical Engineering.

Courses 2, 8, 22, and 23 are required of fourth-year students in Electrical and Mechanical Engineering.

Courses 3, 11, 12, 25, and 26 are required of fourth-year students in Electrical Engineering.

Course 3 is required also of fourth-year students in Chemistry and Metallurgy.

Course 5 is required of third-year students in Civil, Sanitary, and Mining Engineering, Chemistry (B), and Metallurgy.

Course 24 counts as major for Ph.D.

Course 27 is required of third-year students in Mechanical Engineering.

Course 28 is required of fourth-year students in Mechanical Engineering.

### Courses

1—Dynamo and motor practice—Principles, construction, operation, and design of dynamos and electric motors. Text-books: Crocker's

*Electric Lighting*, vol. i.; Sever's *Laboratory Notes*. 3 hours, first half-year. Professors CROCKER and SEVER

2—Electric power—Transmission and distribution of electric power, including the principles and applications of the direct-current, single-phase, and polyphase systems. 2 hours, first half-year. Professor CROCKER

3—Electrochemistry and electrometallurgy; including theory and applications of electrolysis and electrical heating; theory and practice of primary and secondary batteries; production, separation, and purification of chemicals and metals. 1 hour. Professor CROCKER

4—Electric lighting—The design, installation, and operation of electric-lighting systems and plants, including a discussion of each of the various elements and methods employed. Text-book: Crocker's *Electric Lighting*, vol. i. 3 hours, second half-year. Professor CROCKER

5—General electrical engineering—The principles of electrical engineering and their application to general engineering. 1 hour lecture and 1 afternoon laboratory work, second half-year. Professors CROCKER and SEVER

6—Telegraph and telephone. Text-books: Pope's *Modern Practice of the Electric Telegraph*; Webb's *Practical Telephone Hand-book*. 2 hours, second half-year. Professor CROCKER

7—Elements of electrical engineering—General electrical principles, laws, measurements, and the introduction to their applications, including the elements of the dynamo. Text-book: Thompson's *Elementary Lessons in Electricity and Magnetism*. 2 hours, first half-year; 1 hour, second half-year. Professor CROCKER and Mr. TOWNSEND

8—Electric railway—The design, installation, and operation of the various systems of electric railways. 2 hours, second half-year. Professor SEVER

10—Direct-current laboratory—Practice in the use of instruments and in the operation and testing of direct-current dynamos and motors. Text-book: Sever's *Laboratory Notes*. 5 hours laboratory work. Professor SEVER

11—Alternating-current laboratory—Practice in the use of instruments and in the operation and testing of alternating-current generators, motors, and transformers. Text-book: Townsend's *Laboratory Notes*. 5 hours laboratory work. Mr. TOWNSEND

12—Electrical-instrument laboratory. Calibration of commercial measuring instruments and advanced electrical measurements, including self-induction, capacity, and magnetic measurements. Storage battery testing, photometry of electric lamps, operation of telegraph and telephone apparatus.  $7\frac{1}{2}$  hours laboratory work, first half-year. Mr. WHITE

15—Design of direct-current machinery. Original design in detail

with calculations and working drawings of a specially assigned dynamo or motor. 2 hours conference and 1 afternoon in drawing-room, second half-year. Professor SEVER

22—Management of electrical plants—Economy in the design, construction, and operation of electrical stations, plants, and factories. Organization, administration, accounts, specifications, contracts, laws and insurance rules, accidents, patents, and statistics in relation to electrical work. 2 hours, second half-year. Professor CROCKER

23—Electrical distribution—Principles and methods of transmitting and distributing direct as well as alternating currents; series, parallel, and multiple wire systems; regulation of voltage and current; transformers; meters; arc and incandescent lamps. Text-book: Crocker's *Electric Lighting*, vol. ii. 2 hours, first half-year. Professor CROCKER

24—Special problems and original investigations in electrical engineering. Post-graduate work under the direction of the officers of the department.

25—Design of alternating-current machinery—Original design of alternating-current generators, motors, transformers, etc. 1 hour, second half-year. Mr. TOWNSEND

26—Graduation thesis for degree of Electrical Engineer—Original work and report on a subject approved by the head of the department.

27—Direct-current laboratory—Short course for students in Mechanical Engineering. Text-book: Sever's *Electrical Engineering Laboratory Experiments*. 1 afternoon a week, first half third year. Professor SEVER

28—Alternating-current laboratory—Short course for students in Mechanical Engineering. Covers the important elementary phenomena of alternating currents. Townsend's *Laboratory Notes*. 1 afternoon, part of first half fourth year. Mr. TOWNSEND

Graduates of colleges or technical schools are admitted without examination as candidates for the degree of Electrical Engineer, provided their preparatory course of study has been sufficient.

It is possible for a graduate of a high-grade mechanical or other engineering course to obtain the degree of Electrical Engineer in one year. In such a case the student must have already passed the general and mechanical subjects of the entire course. These cover practically all the work of the first and second years of the Electrical Engineering course and nearly half of the third- and fourth-year subjects. The student may, therefore, be excused from these studies and can devote himself to the electrical subjects of the third and fourth years, which as far as possible are arranged to avoid conflicts.

### Equipment

The offices, laboratories, lecture, and other rooms of the Electrical Engineering department are in the south end of Engineering. In the



sub-basement is located the photometer room. In the basement are situated the two machine laboratories, the larger containing the direct-current machinery, while the smaller accommodates the alternating-current apparatus.

The various machines include examples of 115- and 500-volt constant potential generators, constant-current arc-lighting dynamos, and other typical apparatus. Several types of stationary and railway motors, as well as motor-dynamos are also placed in this room. Machine and hand tools are provided in one corner of this laboratory for making and repairing apparatus, attachments, and the like. Complete sets of ampere and volt meters, speed indicators, and transmission and absorption dynamometers, are available for testing the various dynamos and motors. In the Mechanical Engineering Laboratory is placed an electric car of full size, completely equipped with motors and controlling apparatus. This is available for purposes of testing.

In the other machinery laboratory, the alternating-current apparatus is placed, including single-phase and polyphase generators, induction and synchronous motors, rotary converters, and various types and sizes of transformers. Each alternator is driven by a separate electric motor, enabling its speed to be independently regulated. Complete sets of alternating-current-measuring instruments and curve-tracing apparatus are also provided.

On the first floor are situated the lecture-rooms, which are provided with an ample supply of electrical energy of different forms, as well as gas, water, and other facilities to enable experimental demonstrations to be conveniently and effectively performed.

The museum contains cases for the collection of apparatus, models, and materials relating to Electrical Engineering. This museum adjoins the lecture-rooms so that its contents can be conveniently used for illustrating the lectures.

On the third floor are located the large instrumental laboratory, the research room, and the studies of the officers. The laboratory contains various forms of galvanometers, ampere balances, potentiometers, standard cells and resistances; apparatus for measuring inductance, magnetic permeability, hysteresis, and leakage; laboratory standard volt and ampere meters. A storage battery is provided in this laboratory for testing purposes and as a source of steady current for calibration and standardization of instruments. The research room is used for special post-graduate and thesis work, and is fitted up according to the lines of investigation that are being followed.

A most important facility is the large and reliable supply of electric power which is afforded by the central power plant of the University. This electrical generating plant, having a total capacity of 750 H.P., and illustrating the latest and best practice in electrical engineering, furnishes current for electric lighting and for driving the motors and fans used in ventilating all of the buildings. Special conductors are

also laid to convey to all the laboratories and lecture-rooms of the Electrical Engineering department an ample supply of current for experimental work.

### English

THOMAS RANDOLPH PRICE, M.A., LL.D.....	<i>Professor</i>
BRANDER MATTHEWS, LL.B., D.C.L., Litt.D.....	<i>Professor</i>
GEORGE RICE CARPENTER, A.B.....	<i>Professor</i>
WILLIAM PETERFIELD TRENT, M.A., LL.D.....	<i>Professor</i>
WILLIAM TENNEY BREWSTER, A.M.....	<i>Adjunct Professor</i>
GEORGE C. D. ODELL, Ph.D.....	<i>Adjunct Professor</i>
CLAYTON MEEKER HAMILTON, A.M.....	<i>Tutor</i>
GEORGE PHILIP KRAPP, Ph.D.....	<i>Tutor</i>
RALPH CURTIS RINGWALT, A.B., LL.B.....	<i>Lecturer in Public Speaking</i>
EDWARD MORGAN LEWIS, A.B.....	<i>Lecturer in Elocution</i>
VIRGINIA C. GILDERSLEEVE, A.M.....	<i>Assistant in Barnard College</i>
EDWIN CARLETON UPTON, A.M.....	<i>Assistant</i>
FRANCES CAMPBELL BERKELEY, A.B.....	<i>Assistant in Barnard College</i>

Course **A** is given at Columbia College, at Barnard College, and at Teachers College.

Courses **B**, **10**, **15**, **16**, **19**, are given both at Columbia College and at Barnard College.

Courses **4**, **6**, **9**, **17**, **21**, **22**, **23**, are given only at Columbia College.

Courses **1**, **2b**, **20**, **24**, are given only at Barnard College.

Courses **16**, **17**, are open to seniors in Columbia College as well as to graduate students.

Courses **7**, **16**, **17**, **30**, **34**, **41**, **43**, **44**, **47**, **50**, **51**, and Seminary **A** are open to graduate students (but Courses **41**, **43**, and **44** are not open to women).

Courses **2**, **3**, **5**, **18**, **25**, **31**, **32**, **33**, **40**, **42**, **45**, **48**, **49**, are not given in 1902-03.

For pre-requisites for admission into courses, see the special Circular of the Department of English.

### Courses

**A**—English literature and composition—Lectures, recitations, and themes. 3 hours. Professor ODELL and Mr. UPTON (Columbia College); Professor BREWSTER, Mr. HAMILTON, Miss GILDERSLEEVE, and Miss BERKELEY (Barnard College); Mr. ABBOTT (Teachers College)

**B**—English literature and composition—Fortnightly essays, lectures, and consultations. 2 hours. Professor G. R. CARPENTER, Professor BREWSTER, and Mr. HAMILTON (Columbia); Professor BREWSTER, Miss GILDERSLEEVE, and Miss BERKELEY (Barnard)

**1**—English composition—Daily themes and fortnightly essays, lectures, and consultations. 3 hours, first half-year. Professor BREWSTER

[2—English composition—Lectures and discussions with regard to style; essays and other written work. 3 hours, second half-year. Professor G. R. CARPENTER (Columbia); Professor BREWSTER (Barnard)]

2b—English composition, with special reference to expository and critical writing. 3 hours, second half-year. Professor BREWSTER

[3—English composition (advanced course)—Essays, lectures, and consultations. 2 hours. Professor G. R. CARPENTER]

4—Elocution—Lectures and exercises. 2 hours. Mr. LEWIS

[5—The art of English versification. Professor BRANDER MATTHEWS]

6—Theory and practice of public speaking. 3 hours. Mr. RINGWALT

7—Theory of English usage. 1 hour. Professor G. R. CARPENTER

9—Debating. 3 hours. Mr. RINGWALT

10—English essayists of the nineteenth century. 3 hours (Columbia); 2 hours (Barnard). Professor G. R. CARPENTER

15—Anglo-Saxon and historical English grammar. 3 hours (Columbia); 2 hours (Barnard). Dr. KRAPP

16—Anglo-Saxon literature—Poetry and prose. 2 hours. Dr. KRAPP (Columbia); Professor TRENT (Barnard)

17—Chaucer—Language, versification, and method of dramatic poetry. 2 hours. Professor PRICE

[18—Pope—Language, versification, and poetical method. 2 hours. Professor PRICE]

19—Shakspere—Language, versification, and method of dramatic poetry. 2 hours. Professor PRICE

20—The poetry, lyrical, narrative, and dramatic, of Tennyson, Browning, and Matthew Arnold. 2 hours. Professor TRENT

21—American literature. 3 hours. Professor BRANDER MATTHEWS and Mr. HAMILTON

22—The history of the English novel. 3 hours. Professor BRANDER MATTHEWS and Dr. KRAPP

23—English poetry—General survey from the Elizabethan age to modern times. 3 hours. Professor ODELL

24—English prose—General survey from the Restoration to modern times. 2 hours. Professor BREWSTER

[25—The development of the English drama. 3 hours. Professor BRANDER MATTHEWS]

30—English language and literature of the eleventh, twelfth, and thirteenth centuries (advanced course), with reading of selected authors, investigation of special questions, and writing of essays. 2 hours. Professor PRICE

[31—English language and literature of the fourteenth (exclusive of Chaucer) and fifteenth centuries, with reading of selected authors, investigation of special questions, and writing of essays. 2 hours. Professor PRICE]

[32—English language and literature of the sixteenth century, reading of selected authors, investigation of special questions, and writing of essays. 2 hours. Professor PRICE]

Courses 30, 31, and 32 are given successively in 1902-03, 1903-04, and 1904-05

[33—Anglo-Saxon prose and historical English syntax. Texts: Prose in Sweet, Bright, and Grein; with investigation of special questions, and writing of essays. 2 hours. Professor PRICE]

34—English verse-forms—Historical study. 2 hours. Professor PRICE

[40—Epochs of the drama. 2 hours. Professor BRANDER MATTHEWS]

41—Dramatists of the nineteenth century. 2 hours. Professor BRANDER MATTHEWS

Courses 40 and 41 are given in alternate years.

[42—Molière and modern comedy. 2 hours. Professor BRANDER MATTHEWS]

43—English comedy: its history and its methods. 2 hours. Professor BRANDER MATTHEWS

Courses 42 and 43 are given in alternate years.

44—The history of the drama—Special topics. Professor BRANDER MATTHEWS

[45—The evolution of the essay. Professor BRANDER MATTHEWS]

47—English literature from 1625-1701. 2 hours. Professor TRENT

[48—English literature from 1701-1798. 2 hours. Professor TRENT]

[49—English literature in the first half of the nineteenth century. 2 hours. Professor TRENT]

Courses 47, 48, 49 are given in successive years.

50—English poetic forms. 2 hours. Professor TRENT

51—English prose. 1 hour. Professor BREWSTER

Seminary A—Elizabethan poetry, exclusive of the drama. 2 hours. Professor TRENT

#### Undergraduate Courses in Teachers College

T. C. 2—Shakspeare—Recitations, lectures, fortnightly reports, and conferences. 2 hours. Mr. ABBOTT

T. C. 3—Composition—Lectures, fortnightly themes or tri-weekly paragraphs, and conferences. 2 hours. Mr. ABBOTT

T. C. 5—Nineteenth-century poetry—Recitations, conferences, and reports. 2 hours, second half-year. Professor BAKER

T. C. 10—The folk story. 2 hours. Lectures and reading. Dr. KRAPP

### French

(See Romance Languages and Literatures)

### Geology

JAMES FURMAN KEMP, A.B., E.M.	.....	<i>Professor</i>
AMADEUS WILLIAM GRABAU, S.D.	.....	<i>Adjunct Professor</i>
ALEXIS ANASTAY JULIEN, Ph.D.	.....	<i>Curator</i>
GEORGE IRVING FINLAY, A.B.	.....	<i>Assistant</i>
HERVEY WOODBURN SHIMER, A.B.	.....	<i>Assistant</i>

For full information regarding the following courses see the Circular of Information of the Faculty of Pure Science.

Courses 1, 2, 3, 13, and 16 are open to College students; Courses 2, 3, 4, 6, 10, 13, 16a, and 18 are open to students in Applied Science; Courses 2, 3, 6, 7, 8, 14, 15, 16b, and 17 are open to graduate students.

### Courses

1—General geology. 2 hours lectures and 2 hours laboratory, counting as a three-hour course. Professor GRABAU and Mr. SHIMER

2—General geology. 3 hours lectures. Professor KEMP, Professor GRABAU, and Mr. FINLAY

3—Economic geology. 3 hours lectures. Professor KEMP

4—Petrography. 2 lectures and 1 afternoon for two months, second term. Compare Mineralogy 6. Professor KEMP and Mr. FINLAY

6—Petrology. 2 lectures and at least 4 hours laboratory. Professor KEMP

7—Invertebrate palæontology. 2 lectures and at least 4 hours laboratory. Professor GRABAU and Mr. SHIMER

8—Comparative geology—A comparative description and study of the geological formations of North and South America. Alternates with Course 14. 2 lectures and 4 hours reading and laboratory. Given in 1903-04. Professor KEMP for the crystalline and pre-Cambrian rocks, Professor GRABAU for the fossiliferous.

10—Geological examinations and surveys—A discussion of field methods and of the organization of geological surveys. 1 lecture. Professor KEMP

12—A thesis which will furnish the major course for the concluding year of study for the degree of Doctor of Philosophy.

13—Field geology—Ten days field work and report upon the same during the vacation. Given in two sections, the Eastern section immediately at the close of the spring examinations, the Western section in connection with Mining 11.

**15**—Phylogeny of a special group of fossil invertebrates. 6 or more hours laboratory and conference by appointment. Pre-requisite Course 7. Professor GRABAU

**16a**—Fossil faunas—A study of American fossil faunas. 1 lecture and 4 or more hours laboratory. Pre-requisite Course 1 or 2. Professor GRABAU and Mr. SHIMER

**16b**—A more extended course which may be taken as a minor or partial major. 6 hours or more laboratory, and additional conferences. Professor GRABAU

**17**—Stratigraphy—Faunas of a special horizon or locality. 6 hours or more laboratory and conference by appointment. Professor GRABAU

**18**—General geology. 3 hours lectures during the second term. Field work on Saturdays during the last six weeks. Special course for students in Civil Engineering. Professor KEMP and Mr. FINLAY

General geology—A course in general geology, 3 lectures weekly, and equivalent to Course 2 above, is offered students from Barnard and Teachers Colleges. Mr. FINLAY

The department has ample laboratories and a full equipment for its several lines of work, details of which will be found in the Circular of the Faculty of Pure Science.

Related courses in Physiography are given in Teachers College by Professor R. E. DODGE in close association with this department.

The following courses in Palæobotany are offered at the New York Botanical Garden by Dr. ARTHUR HOLLICK.

General palæobotany—Developmental history and structure of the fossil flora of some selected locality. Laboratory and Museum.

Cretaceous flora of eastern North America.—Collection and determination of specimens of some station with attention to stratigraphic relations. Field and laboratory.

The palæobotanical library and collections of Columbia University have been deposited at the Garden.

### Germanic Languages and Literatures

WILLIAM HENRY CARPENTER, Ph.D. . . . . *Villard Professor of Germanic Philology*

CALVIN THOMAS, A.M. . . . . *Gebhard Professor of the Germanic Languages and Literatures*

WILLIAM ADDISON HERVEY, A.M. . . . . *Instructor*

ELIJAH WILLIAM BAGSTER-COLLINS, A.M., *Instructor in Teachers College*

RUDOLF TOMBO, Jr., Ph.D. . . . . *Instructor*

RUDOLF TOMBO, Sr., Ph.D. . . . . *Tutor in Barnard College*

ARTHUR F. J. REMY, Ph.D. . . . . *Tutor*

WILHELM ALFRED BRAUN, A.B. . . . . *Tutor in Barnard College*

EMIL A. C. KEPPLER, A.M. . . . . *Assistant*

FREDERICK W. J. HEUSER, A.M. . . . . *Assistant*

The department, as its name implies, offers instruction, not only in German, but in the kindred languages and literatures of the other members of the Germanic group. In German the aim of the instruction is primarily to enable students to use the modern language with facility in reading, writing, and, as far as possible, in speaking, and to acquaint them with the masterpieces of German literature. Opportunity is also given to acquire a reading knowledge of the languages of the other Germanic nations, and to study their literatures. Parallel courses are arranged in such a way that while both language and literature are combined in the earlier courses, either side may be subsequently emphasized at will. Courses are also given in the philology of the whole Germanic group. Work supplementary to the lectures is given in the Seminar.

The courses offered by the department are grouped under the following heads: German, Scandinavian, Low German, Gothic, and Germanic Philology.

Course A is prescribed for freshmen in the College who did not present Elementary German at entrance; Course 1 is equivalent to Course A plus a three-hour elective; Courses 2 and 22 are open to students who presented Elementary German at entrance, or have taken Course A; Course 3a is open to students who have presented the Intermediate requirement at entrance, or have taken Course 2, 22, or an equivalent; Courses 3b and 4 are equivalent courses, open to students who have presented the Intermediate requirement at entrance, or have taken Course 2, or an equivalent; Courses 6 and 9 are open to students who have taken Course 3, 4, or an equivalent; Course 7 is open to students who have taken Course 6 or an equivalent; Course 8 is open to students who have taken Course 22 or an equivalent, or are taking Courses 3 or 4; Courses 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, and 24 are open, with the permission of the instructor, to seniors; Courses A, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, and 24 are open to university students. The Seminar is open to advanced students only.

Courses A, 1, 2, 22, 3, 4, 5, and 8 may not be counted towards the degree of Master of Arts or Doctor of Philosophy, and all other courses may be so counted only when such additional work is taken in connection with them as may be prescribed by the instructor in charge.

All the courses in this department, with the exception of A, 1, 2, 22, 3, 4, 5, 6, 7, 8, and 9, are open to women on the same terms as to men. Women wishing to enter any of the courses as special students or as candidates for the bachelor's degree must register through Barnard College or Teachers College.

Courses 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, and 24 are open, with the consent of the instructor, to auditors.

Courses A, 2, 3, 4, 6, 7, and 8 are also given in Barnard College. A parallel course to Course 20 is given as Course 25 in Barnard College.

Courses 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 23, and 24 are open, with the permission of the instructor, to seniors of Barnard College.

Course 19 is given as Education 17 in Teachers College.

Courses 1, 5, 6b, 10a, 21, 19, 12, 13, 14, 24 are not given in 1902-03.

### Courses in German

**A**—Elementary course. Thomas, *Practical German Grammar*; HARRIS, *German Reader*; easy stories and plays. 3 hours. Mr. HERVEY, Dr. R. TOMBO, Jr., Mr. KEPPLER, and Mr. HEUSER

[1—Longer elementary course. 6 hours.

First half-year identical with Course A; in second half-year more difficult prose, by such authors as Heine, Riehl, and Freytag]

Not given in 1902-03.

**2**—Grammar, reading, and composition. 3 hours. Dr. REMY, Mr. KEPPLER, and Mr. HEUSER

The text-books and plan of work are in general the same as those of the second half-year of Course 1.

Students who have taken Course 1 or 2 will be prepared to join Course 3, 4, or 5 at the beginning of the second year, either of which will be accepted as an equivalent of the reading knowledge of German required of candidates for the degree of Doctor of Philosophy in the School of Philosophy.

**22**—Grammar and composition. Syntax and word-formation; sight-reading and colloquial practice. 2 hours. Mr. HERVEY

**3a**—Selected works of Goethe, Schiller, and Lessing. Texts, chiefly dramatic, and essays. Intended primarily for students who have not previously read works of these authors. 3 hours. Mr. HERVEY

**3b**—Selected works of Goethe, Schiller, and Lessing. Texts and essays. Intended primarily for students who have some acquaintance with the works of these authors. 3 hours. Mr. HERVEY

**4**—Historical prose. One volume of Freytag's *Bilder aus der deutschen Vergangenheit*, and other works of a historical character. 3 hours. Dr. R. TOMBO, Jr.

**[5**—Scientific German. Brandt and Day, *German Scientific Reading*, and various scientific monographs. 3 hours]

**6a**—History of German literature from the earliest times to the Reformation. Lectures, themes, and readings from Müller's *German Classics*. 2 hours. Professor THOMAS

Courses 6a and 6b are given in alternate years.

**[6b**—History of German literature from the Reformation to the nineteenth century. Lectures, themes, and readings from Müller, *German Classics*. Professor THOMAS]

**7**—Goethe's *Faust*: First and second parts. Lectures and recitations. 2 hours. Professor THOMAS



8—Practice in speaking and writing German. Talks and themes, all in German, upon linguistic and literary topics. 2 hours. Dr. R. TOMBO, Jr.

9—History of the German language. Lectures and texts. 2 hours. Professor W. H. CARPENTER

23a—Epochs of German culture. The age of chivalry. Lectures, themes, and readings. 2 hours. Mr. HERVEY

[10a—Great German writers. Lessing (first half-year) and Goethe (second half-year). 2 hours. Professor THOMAS]

Courses 10a and 10b are given in alternate years.

10b—Great German writers. Schiller (first half-year) and Heine (second half-year). 2 hours. Professor THOMAS

11—Old High German. Lectures and texts. 2 hours. Dr. R. TOMBO, Jr.

Courses 11 and 21 are given in alternate years.

[21—Middle High German. Lectures and texts. 2 hours. Professor W. H. CARPENTER]

[19—Teachers course. Theory and practice of teaching German in secondary schools. Lectures, essays, discussions, reports of observation, and practice-teaching. Two conferences a week and a total of 30 hours of practical work. Mr. BAGSTER-COLLINS]

Given as Education 17 at Teachers College

20—Geschichte der deutschen Litteratur im 19. Jahrhundert. Vorlesungen in deutscher Sprache. 2 hours. Professor THOMAS

### Courses in Scandinavian

[12—Swedish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Swedish literature. 2 hours. Professor THOMAS]

Swedish alternates with Danish and Dutch in a cycle of three years.

[13—Danish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Danish literature. 2 hours. Professor THOMAS]

Danish will be given in 1904-05.

[14—Icelandic. Elementary course. Kahle, *Altisländisches Elementarbuch*. 2 hours. Professor W. H. CARPENTER]

Courses 14 and 15 are given in alternate years.

15—Icelandic. Advanced course. The *Snorra Edda*. Lectures and texts. 2 hours. Professor W. H. CARPENTER

### Courses in Low German

16—Dutch. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Dutch literature. 2 hours. Professor W. H. CARPENTER

[24—Old Saxon. Holthausen, *Altsächsisches Elementarbuch*. 2 hours. Dr. R. TOMBO, Jr.]

### Course in Gothic

17—Gothic. Streitberg, *Gotisches Elementarbuch*. 2 hours. Dr. REMY

### Course in Germanic Philology

18—General introduction to Germanic philology. Lectures and exercises. 2 hours. Professor W. H. CARPENTER

### Germanic Seminar

Germanic Seminar. Critical study of the Middle High German *König Rother* (first-half year). The works of Grillparzer (second half-year.) Professors W. H. CARPENTER and THOMAS

The Seminar is open to advanced students only. Attendance at the meetings is obligatory upon candidates for the degree of Doctor of Philosophy whose major subject lies in this department.

### Public Lectures

A course of lectures in the German language on popular subjects, intended primarily for the students of the University, but to which the general public is also invited, is given yearly under the auspices of the department.

### Equipment

The University Library offers excellent facilities for the study of German, both on the literary and the linguistic side. In German literature most periods are well represented. The Goethe collection, which consists of more than 1200 titles, affords to the student of Germany's greatest author an exceptional opportunity for the prosecution of his researches. The Scandinavian collection contains a good representation of the ancient saga and poetical literature, and most of the eminent writers of modern Norway, Denmark, and Sweden.

The Library has sets and the current numbers of all the important periodicals which deal with Germanic literature and Germanic and general philology. It has also sets of periodicals no longer published, and a large collection of the transactions and publications of the learned societies of America and Europe.

A reference library, containing the most important subsidia for the critical study of the Germanic languages and literatures—dictionaries, bibliographies, biographies, histories of literature, and the like—and independent of the main collection in the University Library, is placed in a room adjacent to the main lecture-room and the offices of the department in University Hall.

The income of the Carl Schurz Library Fund (\$10,000), contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is, by the terms of the gift, devoted in perpetuity to the purchase of books in the field of the German language and literature.

The Carl Schurz Fellowship in the German Language and Literature, of the value of eight hundred dollars, the income of a fund (\$10,000) contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is awarded every alternate year, beginning July 1, 1902.

## Greek

(Including *Archæology* and *Epigraphy*)

EDWARD DELAVAN PERRY, Ph.D.....	<i>Jay Professor</i>
JAMES RIGNALL WHEELER, Ph.D.....	<i>Professor</i>
MORTIMER LAMSON EARLE, Ph.D.....	<i>Professor of Classical Philology</i>
GONZALEZ LODGE, Ph.D.....	<i>Professor of Greek and Latin in Teachers College</i>
CLARENCE HOFFMAN YOUNG, Ph.D.....	<i>Adjunct Professor</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor of Classical Philology</i>
HENRY JAGOE BURCHELL, A.M.*.....	<i>Tutor in Classical Philology in Barnard College</i>
JAMES DENNISON ROGERS, Ph.D.....	<i>Lecturer</i>
GERTRUDE MARY HIRST, Ph.D.....	<i>Assistant in Classical Philology in Barnard College</i>

Courses A, B, 3, 5, and 6 are closed to women. Course 7 is closed to women undergraduates. The other courses are open to women on the same terms as to men.

Courses 11, 17, 19, and 20 are open to auditors.

Courses A, B, 3, 5, 6, 7, 11, 13, 17, 19, and 20 are open as electives to properly qualified students in Columbia College; but of these Courses, 11, 13, 17, 19, and 20 are open to seniors only. For freshmen who did not present Greek at entrance Course A counts as a 3-hour course. It cannot be counted toward the degree by other students.

Course 17 is open as an elective to properly qualified students in Barnard College.

Courses 11, 13, 17, 19, 20, and 22, and the Greek Seminar are open to graduate students and may be counted towards the higher degrees.

Courses 6 and 7 are also open to graduate students, but may not be counted towards higher degrees.

[NOTE.—Only courses offered in 1902-03 are here given.]

For more detailed information as to the scope of each course, the work pre-requisite to it, and the like, consult the announcement of the Division of Classical Philology for 1902-03.

## Courses

A—Elementary course. 5 hours. Dr. ROGERS

B—First half-year: Selected orations of Lysias. Second half-year: Homer's *Odyssey*, selections. Greek prose composition fortnightly throughout the year. 3 hours. Professor YOUNG and Dr. ROGERS

\* Absent on leave.

3—First half-year: Euripides' *Alcestis*; Sophocles' *Ajax*; required reading (in English, French, or German, at the option of the student), and lectures on the Greek drama. Second half-year: Selections from Thucydides, with required reading as above. 3 hours. Professors YOUNG (first half-year) and PERRY (second half-year)

An additional hour weekly in advanced Greek composition will be offered by Dr. ROGERS, and students who take this may count Course 3 as a four-hour course, or Course 5 as a three-hour course. Candidates for Honors in Classics are strongly urged to avail themselves of this opportunity.

5—First half-year: Selections from Herodotus. Second half-year: Minor Greek poets. 2 hours. Dr. ROGERS

6—First half-year: Sophocles' *Antigone* and Æschylus' *Prometheus*. Second half-year: Demosthenes' *Olynthiacs* and *Philippics*. For private reading in the course of the year, with occasional conferences with the instructor: Sophocles' *Œdipus Tyrannus*. 3 hours. Professors PERRY (first half-year) and YOUNG (second half-year)

7—Greek composition, advanced course. One session weekly, with written exercises, counting as a two-hour course. Professor WHEELER

11—Plato's *Republic* and Aristotle's *Ethics*. 3 hours. Professor EARLE

13—Aristotle's *Poetics*, with three or more plays. 2 hours. Professor WHEELER

17—Introduction to the study of Greek archæology. Part I: Vases, painting. 2 hours. Professor WHEELER

19—Lectures on the manners and customs of the ancient Greeks. 2 hours. Professor YOUNG

20—Readings from Pausanias, with lectures on the monuments of Olympia and Attica. 2 hours. Professor YOUNG

22—Greek dialectic inscriptions. 2 hours. Professor PERRY

### Classical Seminar

*Latin Section*: The Plebeian Latinity. 2 hours, twice a month, second half-year. Professors PECK and EGBERT

*Greek Section*: Interpretation of the *Ion* of Euripides, with preparation and discussion of papers. One session weekly throughout the year, counting as a three-hour course. Professor WHEELER

Attendance is obligatory upon candidates for the degree of doctor of philosophy, and strongly recommended to those for the master's degree, whose major subject lies in this department.

### Courses in New Testament Greek at the Union Theological Seminary

Such courses may count as *part* of the work required for the degrees of master of arts and doctor of philosophy at Columbia University; but students who intend to avail themselves of this privilege must

come to an understanding with the Dean of the Faculty of Philosophy of Columbia University with regard to equivalence of courses and additional work required, at the time of registering themselves, or of renewing their registration, as candidates for a degree.

### Courses in Barnard College

A—Beginners' course: Grammar, composition, Xenophon's *Anabasis*, Homer's *Iliad*. 3 hours. Dr. HIRST

B—Plato: *Apology* and *Crito*, with a part of *Phædo*; first half-year. Homer: *The Odyssey* (selections); second half-year. Greek prose composition. 3 hours. Dr. ROGERS

3—Euripides: *Alcestis* and *Medea*; first half-year. Demosthenes: *De Corona*; second half-year. 3 hours. Professor EARLE and Dr. ROGERS

4—Rapid reading of Homer. 2 hours. Professor KNAPP and Dr. ROGERS

6—Sophocles: *Œdipus Tyrannus* and *Antigone*; first half-year. Thucydides (VI and VII); second half-year. 3 hours. Professor EARLE

7—Advanced Greek prose composition. 2 hours. Professor EARLE

8—New Testament Greek: Reading of the Gospel according to Luke and the Acts of the Apostles with special regard to the forms and idioms of New Testament Greek. 2 hours. Professor EARLE

12—Lyric and bucolic poets; first half-year. 3 hours. Professor PERRY

31—Plato: *The Republic*; first half-year. Æschylus (select plays); second half-year. 3 hours. Professor EARLE

### Courses in Teachers College

Education 76—Theory and practice of teaching Greek in secondary schools—Lectures, reports, and practical work. 2 hours. Professor LODGE

Education 136—Practicum in Greek. 2 hours. Professor LODGE

### Gynecology

GEORGE MONTGOMERY TUTTLE, M.D.....*Professor*  
 GEORGE W. JARMAN, M.D.....*Chief of Clinic and Instructor*  
 W. S. STONE, M.D.....*Instructor*  
 CHARLES ALLEN WHITING, M.D.....*Tutor*  
 E. L'H. MCGINNIS, M.D.....*Electro-Therapeutist*

#### Clinical Assistants

B. W. STIEFEL, M.D.	J. J. HIGGINS, M.D.
CHARLES I. PROBEN, M.D.	FRANK OASTLER, M.D.
JOHN M. KENNEDY, M.D.	WILLIAM L. BRADLEY, M.D.
E. P. MALLETT, M.D.	J. I. EDGERTON, M.D.
G. H. MALLETT, M.D.	

### Courses

Courses 1, 3, and 4 are required in the third year, and Course 2 in the second year, of candidates for the degree of M.D.

1—The principles and practice of gynecology—Didactic lectures. 3 hours, from March 15 to the end of the academic year. Professor TUTTLE

2—Recitations and demonstrations. 1 hour a week for each student for one quarter of the year. Dr. WHITING

3—Clinical instruction at the Vanderbilt Clinic. 1 hour. Professor TUTTLE

4—Practical instruction in diagnosis, treatment, and the use of instruments. 10 lessons for each student at the Vanderbilt Clinic. Dr. JARMAN and Dr. STONE

5—Hospital clinics in operative gynecology—Roosevelt Hospital, McLane Operating Theatre. Tu., Th., and Sat. at 2.30 P.M.

### The McLane Operating Theatre of Roosevelt Hospital

This is upon the hospital grounds, immediately opposite the College of Physicians and Surgeons, and is one of the most thoroughly equipped buildings in this country for instruction in the surgery of gynecology.

The cases upon which operations are demonstrated are taken from the gynecological wards of Roosevelt Hospital, which are under the exclusive direction of the Professor of Gynecology, and the cases in which are all available for the instruction given by him.

### History and Political Philosophy

WILLIAM MILLIGAN SLOANE, Ph.D., L.H.D., LL.D.	<i>Seth Low Professor</i>
HERBERT LEVI OSGOOD, Ph.D.	<i>Professor</i>
WILLIAM ARCHIBALD DUNNING, Ph.D.	<i>Professor</i>
JAMES HARVEY ROBINSON, Ph.D.	<i>Professor</i>
WILLIAM ROBERT SHEPHERD, Ph.D.	<i>Instructor</i>
JAMES THOMSON SHOTWELL, A.B.	<i>Lecturer</i>
HARRY ALONZO CUSHING, LL.B., Ph.D.	<i>Lecturer</i>
ELLEN SCOTT DAVISON, A.M.	<i>Lecturer in Barnard College</i>
JAMES W. GARNER, Ph.D.	<i>Lecturer</i>
WALTER L. FLEMING, M.S., A.M.	<i>Lecturer</i>
GEORGE W. BOTSFORD, Ph.D.	<i>Lecturer</i>

There are three groups of courses in this department: disciplinary, narrative, and research. Course A is required of all candidates for the A.B. degree; with it may be classed Courses 1, 2, 3, and 4. Courses 5, 6, 7, 11, 14, 30, and 40 are preparatory to the independent investigation of historical subjects, and are open to properly qualified students of Columbia College, and the rest are intended for the training of candidates for the higher degrees. These all may be supplemented and

complemented by courses given in other departments which deal with subjects constituting an integral part of the domain of history: viz., history of European law, general history of diplomacy, history of American diplomacy, and the historical courses in Economics, Social Science, and Philosophy. The University likewise affords excellent opportunities for the study of archæology, political geography, and philology in their intimate connection with historical research.

### Courses in History

**A**—Epochs of ancient, mediæval, and modern history. 3 hours. Columbia College, Dr. GARNER; Barnard College, Mr. SHOTWELL

**1**—Continental European history, mediæval and modern, to 1648. 3 hours. Mr. SHOTWELL and Dr. GARNER

**2**—Continental European history, modern and contemporaneous (1648-1889). 3 hours. Columbia College, Mr. FLEMING; Barnard College, Miss DAVISON

**3**—English history to the reform bill (1832). 3 hours. Mr. FLEMING

**4**—History of the United States to the close of reconstruction (1877). 3 hours. Columbia College, Professor DUNNING; Barnard College, Mr. FLEMING

**5**—Transitions in European history. 2 hours. Professor SLOANE

**6**—History of Great Britain during the eighteenth and nineteenth centuries. 2 hours. Professor OSGOOD

**10**—Historical bibliography—The sources of mediæval and modern European history—Apparatus of historical study. 2 hours, first half-year. Mr. SHOTWELL

**11**—Development of European culture during the Middle Ages and Renaissance—The Protestant revolt. 3 hours. Professor ROBINSON

**12**—Mediæval institutions and culture—A research course open only to those who can read Latin and French fluently. Luchaire's *Manuel des Institutions françaises* will be used as a hand-book. 2 hours. Professor ROBINSON

**13**—Opening of the Lutheran Reformation (1517-26)—A research course, open only to those who can read German and Latin fluently. 2 hours. Professor ROBINSON

**14a**—France under Louis XVI. The antecedents and opening of the French Revolution. 2 hours, first half-year. Professor ROBINSON

**14b**—The age of the Revolution from 1791 to 1815. 2 hours, second half-year. Open only to those who have taken Course 14a. Professor SLOANE

**15**—The work of Napoleon—This course is open to such selected individuals as give evidence of capacity for original research, and read

French and German fluently. 2 hours, first half-year. Professor SLOANE

16—The constitutional history of England to 1689. 2 hours. Professor OSGOOD and Dr. CUSHING

18—Seminar in later mediæval and modern European history. 2 hours every other week. Professor ROBINSON

19—History of the primitive and early Catholic Church. 3 hours, first half-year. Given at the Union Theological Seminary.

20—History of the western Catholic Church and of the Protestant Reformation. 3 hours, second half-year. Given at the Union Theological Seminary.

21—History of Christian doctrine. 2 hours. Given at the Union Theological Seminary.

22—History of theology during the eighteenth and nineteenth centuries. 2 hours. Given at the Union Theological Seminary.

26—Seminar in Church history. 2 hours, bi-weekly. Given at the Union Theological Seminary.

30—Transitions in American history—This course deals with those epochs of American history where its connection with that of Europe is closest. 2 hours. Professor SLOANE

31—Political and constitutional history of the United States. 2 hours. Columbia College, Professor BURGESS; Barnard College, Dr. CUSHING. (Given at Barnard as half-year course only)

32—American colonial history during the seventeenth century—Open only to approved candidates for the degrees of A.M. and Ph.D., and to such special students as receive permission to attend. 2 hours. Professor OSGOOD

33—American colonial history during the eighteenth century—This course is open to the same class of students as is History 32. 2 hours. Professor OSGOOD

34—European politics and the War of 1812—Research course given to selected individuals who show capacity for original research, and read French and German fluently. 2 hours, second half-year. Professor SLOANE

35—The United States since 1850. 2 hours. Professor DUNNING

37—Seminar in American colonial history. 1 hour. Professor OSGOOD

39—Seminar in later American history. 1 hour. Professor DUNNING

50—Greek and Roman history. 2 hours. Dr. BOTSFORD

51—The Roman empire. 2 hours. Dr. BOTSFORD

52—Seminar in Greek and Roman history. 1 hour. Dr. BOTSFORD

53—Roman political institutions. 2 hours. Professor MUNROE SMITH



56—The history of western Asia and Egypt. 2 hours. Professor PRINCE

57—History of India and of Persia. 2 hours, first half-year. Professor JACKSON

58—Rise of Arabian civilization and the spread of Mohammedanism. 2 hours a week, second half-year. Professor GOTTHEIL

### Courses in Political Philosophy

40—General history of political theories. 2 hours. Professor DUNNING

41—American political philosophy. 2 hours. Professor DUNNING

42—Seminar in political philosophy. 1 hour. Professor DUNNING

### Equipment

The University Library is one of the two or three best similar institutions in the country. It contains over 330,000 volumes, among which are many of the great published collections for the study of ancient, mediæval, and modern history. The special library of history and political science numbers upwards of 100,000 volumes. The great libraries of New York, Astor, Lenox, and Tilden foundations, those of the New York and Long Island Historical Societies and of the Bar Association are, under certain conditions, also accessible to students. Fuller information as to courses and opportunities for historical work is given in the Announcement of the Faculties of Political Science, Philosophy, and Pure Science, and that of the Department of History, which may be obtained by applying to the Secretary of the University. Under the auspices of the Academy of Political Science, to which advanced students are eligible as members, opportunities are given for the discussion of questions of interest as presented in papers by specialists.

The department employs in its work the best French and German historical maps and one of the four largest relief globes ever made.

### Latin

HARRY THURSTON PECK, Ph.D., L.H.D.....	<i>Professor</i>
JAMES C. EGBERT, Jr., Ph.D.....	<i>Professor</i>
NELSON G. MCCREA, Ph.D.....	<i>Adjunct Professor</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor</i>
GEORGE N. OLCOTT, Ph.D.....	<i>Lecturer</i>
*HENRY J. BURCHELL, A.M.....	<i>Tutor in Barnard College</i>

\* Absent on leave.

Courses **x** and **y** are required in the freshman and sophomore years, respectively, of candidates who enter without Latin.

Course **A** or Course **B** is required of candidates for the degree of A.B., and is pre-requisite to **1** and **2**. Similarly **1** or **2** (or an equivalent) is pre-requisite to **3** and **4**, and one of the latter to any more advanced work.

If elementary Latin is not offered as an entrance subject, Courses **x** and **y** are pre-requisite to this course. Course **B** is open as an elective to freshmen in the College.

Courses **1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 16, 20, 21, 22, 23, 29, and 32** may be counted toward the degree of A.B.

Courses **5** and **12** count each as a partial minor or major for A.M. or Ph.D.

Course **32** counts as a minor or partial major for A.M. or Ph.D.

Course **21** counts as a partial minor for A.M. or Ph.D.

Course **22** counts as a partial minor for A.M. and partial major or minor for Ph.D.

The Latin Seminar counts as a full minor or partial major for A.M., and partial major or minor for Ph.D. It is required of candidates for Ph.D. who take Latin as their major subject.

Courses **5, 6, 8, 9, 16, 20, 21, 22, 23, 28, 29, 32, 33, 34**, are open to graduate women students.

Courses **9, 21, 23, 28, 32**, are open to auditors.

Courses **4, 6, 10, 20, 28, 29, 34**, are not given in 1902-03.

### Courses

**A**—First term: Cicero: *De Senectute* and *De Amicitia*; syntax. Terence: *Phormio*. Second term: *Odes* and *Epodes* of Horace; prosody. Pliny: *Letters*. 3 hours. Professor EGBERT and Professor McCREA

[Given at Barnard College by Professor KNAPP and Miss HIRST]

**B**—Readings in prose and verse illustrative of Roman public and private life. 3 hours. Professor PECK

**1**—Tacitus: *The Agricola* and *Annals* (Book I). Horace: *Satires*. 3 hours. Dr. OLCOTT

[Given at Barnard College by Professor KNAPP]

**2**—Horace: *Epistles*—The *Letters* of Cicero. Sight reading. 2 hours. Professor McCREA

**3**—Juvenal and Martial. 3 hours. Professor EGBERT

**4**—Terence: *The Andria* and *Adelphoe*. Plautus: *The Amphitruo* and *Mostellaria*. 2 hours. Professor McCREA

Given at Barnard College by Professor KNAPP]

5—Roman epigraphy (introductory course). 2 hours. Professor EGBERT

[6—Rapid reading of Horace and Ovid. 2 hours. Professor PECK]

8—Latin Manuscripts. A course in Latin Palæography. 2 hours. Professor EGBERT

9—Lectures on the History of Greek and Roman Prose Fiction. 2 hours. Professor PECK

[10—Private life of the Romans. Lectures and readings. 2 hours. Professor McCREA]

11—Catullus, Tibullus, and Propertius. 3 hours. Dr. OLCOTT

[Given at Barnard College by Professor EARLE and Professor KNAPP]

12—Roman epigraphy (advanced course). 2 hours. Professor EGBERT

16—Lucretius (I-III and V). 2 hours. Professor McCREA

[20—Roman oratory: Cicero's Theory and Practice. Cicero: *De Oratore*, *Pro Milone*, *Philippic II*, *Pro Cluentio*. 2 hours. Professor McCREA]

21—Introduction to the study of Roman numismatics. 1 hour. Dr. OLCOTT

22—Latin prose composition (advanced course). 1 hour, to count as 2 hours. Professor McCREA

[Given at Barnard College by Professor KNAPP]

23—The *Cena Trimalchionis* of Petronius. 2 hours. Professor PECK

[28—The history of classical philology. Lectures. 2 hours. Professor PECK]

[29—Roman tragedy. The fragments and Seneca. 3 hours. Professor KNAPP]

32—The topography and monuments of ancient Rome. 2 hours. Dr. OLCOTT

33—The topography and monuments of ancient Rome (Imperial period). 2 hours. Dr. OLCOTT

Pre-requisite: Course 32.

[34—Latin versification. Theory and practice. 1 hour. Professor PECK]

x—Introductory Latin: grammar, composition, Cæsar, Cicero, Phædrus. 5 hours (counting for A.B. as 3 points). Dr. OLCOTT

y—Introductory Latin: Cicero, Vergil, and sight reading. Grammar, composition, and prosody. 3 hours. Dr. OLCOTT

Latin Seminar. 2 hours. Professor EGBERT

## LAW

The courses offered in Law are here indicated. For full information as to the course leading to the degree of Bachelor of Laws consult the statement concerning the School of Law.

## Municipal or Private Law

GEORGE W. KIRCHWEY, A.B.....	<i>Nash Professor</i>
WILLIAM A. KEENER, LL.D.....	<i>Kent Professor</i>
FRANCIS M. BURDICK, LL.D.....	<i>Dwight Professor</i>
GEORGE F. CANFIELD, A.M., LL.B.....	<i>Professor</i>
HENRY S. REDFIELD, A.M., LL.D.....	<i>Professor</i>
CHARLES T. TERRY, A.B., LL.B.....	<i>Professor</i>
HARLAN F. STONE, A.M., LL.B.....	<i>Lecturer</i>
ALFRED HAYES, Jr., A.M., LL.B.....	<i>Tutor</i>

Courses 1 to 6, inclusive, constitute the work of the first year in the Law School and are open to seniors in the College. Courses 7 to 15, inclusive, and Course 20 are open to students who have taken the work of the first year in Law. Courses 16 to 26, inclusive, are open to students who have taken the work of the first and second years in Law.

## Courses

- 1—Equity. 3 hours, second half-year. Professor KEENER
- 2—Contracts. 4 hours. Professor TERRY
- 3—Real and personal property. 2 hours. Professor KIRCHWEY
- 4—Torts. 2 hours. Professor BURDICK
- 4a—Criminal law. 2 hours. Mr. STONE
- 5—Pleading and practice. 2 hours. Professor REDFIELD
- 6—Domestic relations and law of persons. 2 hours, first half-year. Mr. HAYES
- 7—Quasi-contracts. 3 hours, first half-year. Professor KEENER
- 8—Equity. 2 hours. Professor KEENER
- 9—Real and personal property. 2 hours. Professor KIRCHWEY
- 10—Agency. 2 hours. Professor CANFIELD
- 11—Bailments and carriers. 2 hours. Mr. STONE
- 12—Sales of personal property. 2 hours. Professor BURDICK
- 14—Pleading and practice. 2 hours. Professor REDFIELD
- 15—Negotiable paper. 2 hours. Professor BURDICK
- 16—Pleading and practice. 2 hours, first half-year. Professor REDFIELD
- 17—Corporations. 2 hours. Professor KEENER
- 18—Equity. 2 hours. Professor KEENER

- 19—Evidence. 2 hours. Professor CANFIELD  
 20—Insurance. 1 hour. Mr. STONE  
 21—Partnership. 2 hours. Professor BURDICK  
 22—Real and personal property. 2 hours. Professor KIRCHWEY  
 23—Mortgages. 2 hours, second half-year. Professor KIRCHWEY  
 23a—Suretyship. 2 hours, first half-year. Professor BURDICK  
 24—Wills and administration. 2 hours. Professor REDFIELD  
 25—Trusts and perpetuities. 2 hours, second half-year. Professor  
 CANFIELD  
 26—Bankruptcy. 2 hours, second half-year. Mr. HAYES

### Public Law and Jurisprudence

JOHN WILLIAM BURGESS, Ph.D., LL.D.....	<i>Professor</i>
MUNROE SMITH, J.U.D.....	<i>Professor</i>
FRANK JOHNSON GOODNOW, LL.D.....	<i>Professor</i>
JOHN BASSETT MOORE, LL.D.....	<i>Hamilton Fish Professor</i>
HARRY ALONZO CUSHING, LL.B., Ph.D.....	<i>Lecturer</i>

The courses in this department fall into two divisions: public law and jurisprudence. The purpose of the courses in public law is to give a complete general view of international, constitutional, and administrative law. They serve primarily to supplement the courses in the departments of History and Economics, and to give with them a complete system of political science. In the second place, they supplement the courses offered by the department of Private Law, constituting with these a well-rounded legal curriculum. The courses in international, constitutional, and administrative law are also recommended to journalists, students of philosophy and theology, and in general to all who desire to understand the organization and working of governmental systems. The courses on private rights under the Constitution of the United States, on the law of taxation, on the law of municipal corporations, and on conflict of laws are more professional in their character, and are chiefly intended for law students.

The courses in Roman law and comparative jurisprudence, while constituting an integral portion of a complete legal education, will be found useful to all those who desire a general comprehension of the principles of private law rather than a professional training in its details. The introductory course upon the Roman law (21) and that upon European legal history (23) are especially recommended to students of history, economics, and philosophy.

### Courses in Public Law

#### A—Constitutional Law

- 1—Comparative constitutional law of the principal modern states—  
 Lectures. 2 hours. Professor BURGESS

3—Private rights and immunities under the Constitution of the United States—Discussion of cases. 2 hours. Professor BURGESS

4—American constitutional law in its historical development—Lectures. 2 hours. (Identical with History 31.) Professor BURGESS

5—Advanced seminar in constitutional law—Investigation and discussion. 1 hour. Professor BURGESS

The courses in the constitutional history of Europe and England (*cf.* courses in history) are regarded as a necessary introduction to the above courses in constitutional law.

### *B—International Law*

6—History of diplomacy—Lectures. 2 hours, first half-year. Professor MOORE

7—History of American diplomacy—Lectures. 2 hours, second half-year. Professor MOORE

8—International law—Lectures. 2 hours. Professor MOORE

10—Seminar in international law. 2 hours. Professor MOORE

### *C—Administrative Law*

15—History and principles of colonial administration—Lectures. 2 hours, first half-year. Professor GOODNOW

16a—Administrative organization of the United States and the principal European states—Lectures. 2 hours, first half-year. Professor GOODNOW

16b—Law of officers (extraordinary legal remedies). 2 hours, second half-year. Professor GOODNOW

17—Municipal government—Lectures. 2 hours, second half-year. Professor GOODNOW

18—Law of taxation—Lectures and discussion of cases. 2 hours, second half-year. Professor GOODNOW

19—Law of municipal corporations—Lectures and discussion of cases. 2 hours, first half-year. Professor GOODNOW

20—Seminar in administrative law. 1 hour. Professor GOODNOW

### **Courses in Roman Law and Comparative Jurisprudence**

21—Roman law I—History and institutes of Roman law: Family, things, obligations—Lectures. 2 hours, first half-year. Professor MUNROE SMITH

22—Roman Law II—Institutes of Roman law: succession. Selected cases from the *Corpus Juris Civilis*, principally in contracts—Lectures and discussion. 2 hours, second half-year. Professor MUNROE SMITH

23—History of European law (early German law; Frankish law; feudalism; the canon law; the law merchant; the reception of the

Roman civil law; the modern civil codes)—Lectures. 2 hours. Professor MUNROE SMITH

[24—Comparative jurisprudence—Lectures. 2 hours. Professor MUNROE SMITH

Given in 1903-04 and alternate years thereafter]

25—Conflict of laws—Lectures and discussion of cases. 1 hour. Professor MOORE

26—Spanish civil law—Lectures. 1 hour. Professor MUNROE SMITH

29—Seminar in legal history and comparative legislation. 1 hour. Professor MUNROE SMITH

### Materia Medica and Therapeutics

GEORGE L. PEABODY, M.D.....*Professor*

#### Courses

*For full particulars see the Announcement of the School of Medicine.*

Instruction in this department is both didactic and clinical.

1—The didactic course occupies three hours a week and is required, in the second and third years, of candidates for the degree of M.D. Professor PEABODY

2—The clinical instruction in therapeutics is given in the New York and Roosevelt Hospitals, once a week for three months at the New York Hospital, once a week for two months at the Roosevelt Hospital, and is recommended, in the third and fourth years, to candidates for the degree of M.D. Professor PEABODY

### Mathematics

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D.....*Professor*

THOMAS SCOTT FISKE, Ph.D.....*Professor*

FRANK NELSON COLE, Ph.D.....*Professor*

JAMES MACLAY, Ph.D.....*Adjunct Professor*

DAVID EUGENE SMITH, Ph.D.....*Professor in Teachers College*

CHARLES EARLE BIKLÉ, A.M....*Adjunct Professor in Teachers College*

CASSIUS JACKSON KEYSER, Ph.D.....*Instructor*

HENRY BEDINGER MITCHELL, E.E., A.M.....*Tutor*

GEORGE HERBERT LING, Ph.D.....*Tutor*

DAVID H. POLLARD, A.B.....*Assistant*

CHARLES SAVAGE FORBES, A.B.....*Assistant*

EDWARD KASNER, Ph.D.....*Tutor in Barnard College*

WILLIAM FINDLAY, Ph.D.....*Tutor in Barnard College*

Course A or its equivalent is prescribed for the degree of A.B. Courses 3a, 3b, 5, 6, 7, 51 (given in Teachers College), 101 (by permission of the Dean), are open to properly qualified students of Columbia College. Courses 3a, 3b, and 5

are prescribed for first-year students in the Schools of Applied Science, and Course 6 for second-year students.

Courses 51 and 101-110 may be counted toward the degrees of A.M. and Ph.D., and are open to men and women.

For the courses open to students in Barnard College see below.

### Courses

**A**—Geometry, algebra, and trigonometry—Volumetric and spherical geometry (Davies' *Legendre*, Books 6-9); algebra, including the arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the elementary principles of logarithms (Wells' *College Algebra*); plane trigonometry, including the use of tables of logarithms, the solution of plane triangles, the properties and relations of the trigonometric functions, and the deduction of important analytical formulæ. 3 hours. Professor MACLAY, Dr. KEYSER, Mr. MITCHELL, and Dr. LING

**3b**—Algebra—The general theory of equations (Wells' *College Algebra*). 2 hours, first half-year. Professor MACLAY, Dr. KEYSER, Mr. MITCHELL, and Dr. LING

**3a**—Trigonometry—Spherical trigonometry with applications (Davies' *Legendre*). 2 hours, second half-year. Professor MACLAY, Dr. KEYSER, Mr. MITCHELL, and Dr. LING

**5**—Analytical geometry—The equivalent of Wentworth's *Analytical Geometry*. 3 hours. Professor MACLAY, Dr. KEYSER, Mr. MITCHELL, and Dr. LING

**6**—Calculus—Osborne's *Differential and Integral Calculus*. 3 hours. Professor VAN AMRINGE and Professor FISKE

**7**—Differential equations. 3 hours. Dr. LING

**51**—History of mathematics.\* 2 hours. Professor SMITH

**101**—Advanced calculus—The theory of functions of a real variable. 3 hours. Mr. MITCHELL

[**102**—Theory of functions of a complex variable. 3 hours. Professor MACLAY.

Not given in 1902-03.]

**103**—Riemann's theory of functions, including elliptic functions. 3 hours. Professor COLE

**104**—Analytical theory of curves of double curvature. 3 hours, first half-year. Elements of the analytical theory of curved surfaces. 3 hours, second half-year. Professor MACLAY

**105**—Theory of Abelian functions. 3 hours. Professor FISKE

[**106**—Theory of groups. 3 hours. Professor COLE

Not given in 1902-03.]

\* Other courses in the history and teaching of mathematics are also offered in Teachers College.



[107—Modern theories of geometry. 3 hours. Dr. KEYSER

Not given in 1922-23.]

108—Functions defined by linear differential equations. 3 hours.  
Professor FISKE

109—Theory of invariants. 3 hours. Professor COLE

110—The general theory of assemblages. 3 hours. Dr. KEYSER

### Courses Given Separately at Barnard College

Course A is given by Dr. KASNER and Dr. FINDLAY. Courses in Analytical Geometry (No. 1, 3 hours, first half-year); in Elementary Calculus (No. 2, 3 hours, second half-year); in Differential Equations (No. 7, 3 hours), by Dr. KASNER.

Courses in the Theory of Equations (No. 3, 3 hours), and in Advanced Analytical Geometry (No. 8, 3 hours), by Dr. FINDLAY; and in Calculus (No. 6, 3 hours), by Professor COLE

### Equipment

In the equipment of the department of Mathematics is a large number of models, charts, and instruments. An elaborate set of models illustrates the metric system of weights and measures. A set of about fifty models of elementary solid and spherical geometry is intended to exemplify the demonstrations contained in Davies' *Legendre*. These are made of cherry wood with markings in inlaid ebony, and are of unusually large size. There are several similar models representing the different plane sections of the cone. A series of wooden models, constructed by Schroeder of Darmstadt, illustrates elementary solid geometry, and contains, in addition, examples of all the different forms of the surfaces of the second order. There is a series of models of descriptive geometry, also constructed by Schroeder. The horizontal and vertical projections are traced upon boards solidly joined together at right angles and of convenient size to allow in general the representation of three different models, or of three different views of the same model. The form and construction suggest a division of these models into two classes: (1) the representation in metal of lines and surfaces, adjusted upon axes, the projection of several of their positions being given; (2) the representation of solid bodies in hardwood, including the exhibition of their plane sections in various directions and the intersections of different surfaces and solids.

A collection of models, which was presented to the department by President Low, having been purchased by him from the German University Exhibit at the Chicago Exposition in 1893, illustrates analysis situs, theory of functions of a complex variable, surfaces of higher order, their singularities and curvature, and line-geometry.

A series of charts illustrates the theory of plane algebraic curves, especially those of the fourth order, the resolution of higher plane singularities into equivalent elementary singularities, the expression of

functions by means of infinite series and infinite products, and con-formal representation by means of algebraic and elliptic functions.

The collection of mathematical works in the Library of the University is especially rich in treatises and in sets of collected works of mathematicians. All the mathematical journals of importance are regularly received, and the Library possesses complete sets of most of them.

### Mechanical Engineering

FREDERICK R. HUTTON, E.M., Ph.D.....	<i>Professor</i>
WILLIAM LEDYARD CATHCART.....	<i>Adjunct Professor</i>
RALPH E. MAYER, C.E.....	<i>Instructor</i>
IRA H. WOOLSON, E.M.....	<i>Instructor</i>
SAMUEL O. MILLER, C.E.....	<i>Tutor</i>
THOMAS H. HARRINGTON, E.M.....	<i>Tutor</i>
ABBOT M. CREGIER, Mech. E.....	<i>Assistant</i>
CHARLES E. LUCKE, M.S., Ph.D.....	<i>Assistant</i>
ROSSITER L. WATERS, Mech.E.....	<i>Assistant</i>
CHARLES RUSSELL RICHARDS, B.S....	<i>Professor of Manual Training in Teachers College</i>
CHARLES P. BENNS, E.M.....	<i>Instructor in Teachers College</i>
CHARLES C. SLEFFEL.....	<i>Instructor in Teachers College</i>
CHARLES W. WEICK, B.S.....	<i>Instructor in Teachers College</i>

Special students are admitted to the courses for which previous training may have fitted them. All courses intended for undergraduates in the Schools of Applied Science may be pursued by graduates of those or other schools of like grade and standing as graduate courses, the instruction for such persons being carried farther in specialization than the time available permits to candidates for undergraduate degrees. The instruction for such advanced students will be by prescribed reading, by problems assigned, and by work in the mechanical laboratories under individual instruction. These supplementary courses will vary in difficulty with the amount of time necessary according to the needs of the individual and the subject. Courses 10, 11, 12, and 13 are pre-requisites for all graduate courses. Experimental investigation is a special feature of such work in Courses 10 to 17, 19, 24, and 25.

For fuller information regarding the topics covered in these courses see the *Announcement of the Courses in Mechanical Engineering*.

### Courses

1—Elementary mechanical drawing—Use of instruments, elementary projections. 2 hours a week lectures, and 5 hours a week in the first year; 2 hours lectures, and 5 hours draughting-room in the second year. Mr. MAYER and Mr. MILLER

2—Specialized engineering drawing—Working and isometric drawing of machinery, furnaces, and structural work. 2 hours a week lectures, second year; 5 hours a week draughting-room. Mr. MAYER and Mr. MILLER

3 and 4—First-year shop-work—Carpentry, framing, and joinery. 2 afternoons a week shop practice in shops of Teachers College. Mr. WEICK

5—First-summer shop-work—Pattern-making and foundry-work. 100 hours in 3 weeks in June. Mr. WEICK

6—Second-year shop-work—Forging. 1 hour conference, and four laboratory periods first half-year, and two periods for second half-year. Mr. SLEFFEL

7—Second-year shop-work—Bench-work. Machine-tool work. 1 hour a week conference for instruction, and two laboratory periods, second half-year. Mr. BENNS

8—Second-summer shop-work—Machine-tool work continued. 100 hours in three weeks in June. Mr. BENNS

9—Third-year shop-work—Machine-tool work, with special appliances for rapid and economical production. 2 afternoons per week, first half-year. Mr. BENNS

10—Properties of materials—First half: Sources of timber supply, inspection, determination of variety from practical study of planks, logs, and trees; causes of decay and processes of preservation; fire-proofing, etc. Second half: Discussion of properties of other constructive materials; rustless coatings and various methods of protecting metal work; bearing metal alloys. 2 hours per week, second half of second year, and 2 hours per week, first half of third year. Mr. WOOLSON

11—Engineering of power plants—Steam-engines and their mechanisms. 1 hour a week lecture with recitation, second half, second year. Professor HUTTON

12—The steam-engine and its accessories—The power plant continued. 2 hours lectures and recitations, first half, third year. Professor HUTTON

13—The steam-boiler and its accessories—The power plant concluded. 2 hours lectures with recitations, second half, third year. Professor HUTTON

14—Experimental mechanical engineering—Laboratory methods, calibration of instruments. 1 hour lecture throughout the third year. Professor CATHCART and Dr. LUCKE

15—Experimental mechanical engineering laboratory—Test of Duplex pump and simple non-condensing engine. Equivalent of one afternoon per week throughout the third year. Professor CATHCART and Dr. LUCKE

16—Testing materials of engineering—Clinical conferences and work in the laboratory. Mr. WOOLSON

17—Mechanical engineering laboratory—Operation, care, and tests of compound and triple-expansion steam-engines, of hot-air, gas, and oil engines. 2 hours lectures first term and half of second term. Professor CATHCART and Dr. LUCKE

18—Machinery and mechanism—Conversion of motion, teeth of wheels, general mechanism. 2 hours a week lectures and recitations, third year. Mr. WOOLSON

19—Heat and its applications—Fuels for motive power, combustion, transfer of heat, heating surface, gas and air engines, combined vapor engines, air compressors, refrigerating machinery. 3 hours a week lectures and recitations, first half, fourth year. Professor HUTTON

20—Motors other than steam. 1 hour a week lecture, second half, fourth year. Professor HUTTON

21—Dynamics of motors—Dynamometers, governors, regulators. 1 hour a week lecture, second half, fourth year. Professor HUTTON

22—Engineering design and drawing—Graphic statics of forces, moments, and framed structures. 2 hours per week, first half, third year; 1 hour per week, second half-year; afternoon periods in draughting room. Professor CATHCART

23—Valve-gearing for engines—Common valve-gear, polar diagram design, link-motions, cam-gears; variable cut-off mechanisms. 1 hour a week, first half, fourth year, and afternoon work in draughting room. Professor CATHCART

24—Heat and steam engineering laboratory—Triple-expansion Corliss engine, steam-turbine, compound locomotive, flue-gas analysis; hot-air, gas, and oil engines; hydraulic machines. 1 afternoon per week, first term and half of second term. Professor CATHCART and Dr. LUCKE

25—Experimental mechanical engineering laboratory—Stationary boiler-firing, special research. Equivalent of one afternoon per week one half term. Dr. LUCKE, in coöperation with Mr. MORRISON

28—Steam-engine design and advanced drawing—The theory of crank-effort, fly-wheels, governors, balancing, and stresses in built-up framing; design of engine-details. 2 hours, fourth year, with afternoon work in drawing-room. Professor CATHCART

29—Shop and factory organization and management—Productive departments of a shop. Elements of shop-cost. Classification of machine-operations; interchangeable systems; division of labor; time-keeping, cost-keeping in the shop. 1 hour a week second half third year. Professor HUTTON and Mr. BENNS

30—Work-shop economics and specifications—The manufacturing

engineer; elements favoring modern economic production; the factory or works. Principles underlying economic production in shops; stock or staple product and contract work. Labor systems, days-work, piece-work, contract systems, premium plans, profit- and gain-sharing. Shop-order systems; department organization. 1 hour a week first half of third year, and 1 hour per week, fourth year. Professor HUTTON

31—Marine-engine design—Theory and practice of design of structural and working parts. Engine details. Marine-boiler design. 2 hours for Alternative D; 1 hour for Alternative E. Professor CATHCART and Assistants

32—Naval architecture—Methods of calculating areas and volumes as applied to ship forms; trim, and moment to alter trim; statical stability; curves of stability; weights and centre of gravity of hull and equipment. Calculations for a given ship. 2 hours for Alternative D; 4 hours for Alternative E. Professor CATHCART and Assistants

33—Ship-building—Materials; types of vessels; lines and models. Draughting of general arrangement, lines, midship section to rules of insurance societies. The problem of design. The ship from naval and commercial points of view. Initial cost and economy of operation, with regard to speed and carrying capacity. 1 hour for Alternative D; 2 hours for Alternative E. Professor CATHCART and Assistants

34—Marine auxiliaries, appliances, and materials. 2 hours. Professor CATHCART

35—Vacation class in mechanical engineering—During the latter half of the school year visits are made to shops, factories, iron and steel works, and pumping stations, for the study of practice in these lines. The instruction is conducted by Professor HUTTON, Professor CATHCART, and Assistants

36—Summer work between first and second years—Memoir or drawings.

37—Summer work between second and third years—Memoir or drawings.

38—Summer work between third and fourth years—Memoir, test, report, or special laboratory work as may be directed in each case by the Professor of Mechanical Engineering.

39—Graduation thesis.

40—Special problems and original investigations in advanced mechanical engineering, with conferences, laboratory work, and design as required. Major subject for degree of Ph.D. Pre-requisites: all courses offered in the department of Mechanical Engineering.

41—Machine design—Resistance and elasticity of materials; simple stresses and deformations; combined stresses; flexure, shear, and torsion. Forms, stresses, and strength of riveted joints; forms, friction,

pressure, and efficiency of screw-threads; strength of bolts under simple and combined stresses; keyed connections; forced and shrinkage fits; springs, axles, shafting, couplings, journals, bearings; pulleys, clutches; friction gearing; belting and rope transmission. 3 hours a week lectures and recitations during first half, and 4 hours per week during second half, third year, with afternoon work in drawing-room. Professor CATHCART

42—Propelling machinery—Economics of the marine engine; multiple expansion; steam jacketing; re-heating. Power required for propulsion; the resistance of ships; relations of speeds and powers. 2 hours. Professor CATHCART

43—Locomotive engineering and design—The locomotive problems: train resistances, line resistances, traffic obligations, time obligations, limitations of weight, length, height, and speed. 3 hours, first half-year. Professor HUTTON

44—Locomotive accessories—(1) The tender and tank, capacities and structure; effect as limitations on power or haul; draw-bars and couplers; sanders; signal-systems, bell, whistle, head-light, etc. (2) Railway roundhouses and repair shops. (3) Water and coaling stations. Turntables. (4) Mechanically operated switch and signal stations. (5) The testing department of the railway.

45—Locomotive specifications, manufacture, and accidents—(1) Detail study of designs of accepted practice. (2) Locomotive building. (3) Costs of production. (4) Accidents and breakages.

46—Locomotive testing and management—(1) Consumption of coal per H.P.; per square foot of grate; per ton-mile. (2) Consumption of water per H.P.; per ton-mile. (3) Tractive effort at various speeds. (4) Combustion problems in the locomotive. (5) Road tests and operation of engines.

47—Locomotive history and evolution—(1) Historic types. (2) Steam vs. electric traction on trunk and branch lines. (3) Lines of development of locomotive.

48—Traction engines and automobile carriages. Rolling stock: (1) Self-propelling road engines. (2) Street-railway engines. (3) Cars. (4) Automobiles.

44 to 48 form one course of 3 hours per week. Professor HUTTON

49—Mould-loft practice—Afternoon work. Professor CATHCART and Assistants. (*To be organized.*)

103, 104—First-year shop-work—Short course in wood-working for Electrical and Civil Engineers. 1 afternoon per week. Mr. WEICK

106, 107—Second-year shop-work—Short course in forging and machine-shop for Civil and Electrical Engineers. 1 hour lecture first half-year, 1 afternoon per week in both half-years. Mr. SLEFFEL and Mr. BENNS

**110**—Properties of Materials—First half: Sources of timber supply, varieties available, kinds adapted for different classes of constructive work, inspection, determination of variety from practical study of planks, logs, and trees; causes of decay and processes of preservation; fireproofing, etc. 2 hours per week, second half of second year. Mr. WOOLSON

### Equipment

The department of Mechanical Engineering both has its own special equipment and also enjoys the admirable and complete equipment of other departments for the use of its students.

THE WORKSHOPS are located in the Macy Manual Arts building of Teachers College, 120th Street. The wood-working course is planned to lead up to pattern-making and foundry-work. The foundry division has facilities for bench and floor moulding, and for limited work with sweeps. The second division includes the shops for metal-working.

THE MECHANICAL LABORATORIES, properly so called, are located partly in the great basement annex area north of Engineering and beneath the esplanade in front of Havemeyer, partly in Engineering, and partly in the great Power House. Their area exceeds 9000 square feet, giving a length in one span of over 210 feet and a width of 32 and 35 feet. The five subdivisions are, respectively, the Locomotive Laboratory, the Steam and Motive-Power Engineering Laboratories, the Air and Gas-Engine Laboratory, the Hydraulic Motors Laboratory, and the Testing Laboratories.

THE LOCOMOTIVE LABORATORY, OR LABORATORY OF TRANSPORTATION ENGINEERING, forms a unique and impressive department of the mechanical laboratories, by reason of the presence of the full-size passenger express locomotive engine "Columbia," presented to the department by the Baldwin Locomotive Works of Philadelphia. It is a standard-gauge engine of the Vaucrain compound type, having four cylinders, and a power represented by 1600 H.P. Its weight is sixty-three tons, of which eighty thousand pounds rests upon the four drivers and is available for adhesion and traction.

THE STEAM AND MOTIVE-POWER ENGINEERING LABORATORY occupies an area of 84 x 85 feet in the centre of the great laboratory space, and has been made a memorial to the late Edward P. Allis by the gift of the principal features of its equipment by his sons, the Messrs. Allis of Milwaukee.

THE SECTION OF DIRECT-COMBUSTION ENGINES, illustrating motors using other media than steam as heat-carrier, embraces two Otto gas-engines, one of 10 H.P. and one of 15 H.P.; a 10 H.P. Nash engine, a Hornsby-Akroyd oil-engine, and an Ericsson and a Rider caloric pumping engine.

THE HYDRAULIC MOTORS LABORATORY, occupying a space of 67 feet long and 32 feet wide, is at the east end of the laboratory, and has been

made a memorial gift by Mr. Charles C. Worthington, and is known as the Henry R. Worthington Laboratory.

THE TESTING LABORATORIES are equipped with high-grade testing machines for tensile, transverse, torsion, and compression tests.

For description in detail of the equipment of these laboratories, reference may be made to the Announcement of the Courses in Mechanical Engineering, which may be had upon application to the Secretary of the University.

THE POWER PLANTS of the University at the Morningside site, and at the College of Physicians and Surgeons, at 59th Street and Tenth Avenue, offer unusual facilities for tests and investigations on a considerable scale, and add the strength of this administrative equipment to the distinctly laboratory equipment listed above. Students of Mechanical Engineering are permitted to have access to all this additional machinery.

THE DRAUGHTING ROOMS on the top floor of Engineering are splendidly lighted and of very large extent, and are fitted not only with the best forms of drawing tables and furniture, but also with extensive collections of patterns, models, and illustrative drawings, blue prints, photographs, and prints, which are useful both as copies and for training in design.

THE CABINETS OR MUSEUM COLLECTIONS OF MECHANICAL ENGINEERING are located on the first or main floor of Engineering at the right of the entrance. They are subdivided into three groups or alcoves. In the first are exhibited models, specimens, and samples, of the appliances and material referred to in the lectures on steam and motive-power engineering; the second exhibits mechanisms, gearing, and appliances for the transmission of power and conversion of motion; while the third is specially rich in specimens illustrating the properties of engineering materials, and particularly their behavior under strain, their methods of fracture, and the effects of corrosion, abrasion, impact, and the like. Some of these exhibits are unique.

LECTURE- AND CLASS-ROOM ILLUSTRATION is effected by extensive use of material from the collections, and of photographs exhibited as lantern-slides by projection in an illuminated room, by drawings and blue prints, and by electrotype prints and wall diagrams. Great service is made also of typewritten monographs and notes manifolded and distributed to the student.

### Summer and Vacation Work

To derive the advantages possible from continuous work in the shop, two summer classes are maintained, each covering about one hundred working hours, beginning June 1. If necessary another similar term will be arranged for September. These form parts of the regular shop-work course of Mechanical Engineering, but are also intended to permit students from other schools, where these facilities are lacking,



to comply with the requirements of the regular course by extra application and overtime work.

During the session, and on occasional holidays, students are given opportunities to visit engineering works, machine shops, factories, and industrial establishments in the city and its environs. More elaborate excursions are arranged for the advanced students to special places or districts, under the supervision of the professors or instructors. The summer between third and fourth years is intended to be specially used for work in connection with the final thesis, or in tests, or in actual running of machinery.

### Mechanics

ROBERT SIMPSON WOODWARD, C.E., Ph.D. . . . . Professor  
MICHAEL IDVORSKY PUPIN, Ph.D. . . . . Professor  
JOSEPH CLEMENT PFISTER, A.M. . . . . Instructor

Courses 3 and 10-18 are open to women on the same terms as to men.

*For fuller information as to the scope of the courses in this department, the conditions under which certain of them may be counted toward the higher degrees, the pre-requisites for each course, and the like, consult the Announcement of the Faculties of Political Science, Philosophy, and Pure Science, which may be obtained, without charge, from the Secretary of Columbia University.*

### Courses

1—Analytical mechanics. Rankine's *Applied Mechanics* is used as a text for reference. Particular attention is given to the doctrine of units and dimensions of units, and to problems affording actual applications of principles. 3 hours. Professor WOODWARD

2—Elementary mechanics. Loney's *Elements of Statics and Dynamics* is used as a text. 2 hours. Mr. PFISTER

3—Theoretical mechanics. This requires familiarity with the elements of the differential and integral calculus. Mr. PFISTER

4—Thermodynamics, with special reference to its bearing on the theory of heat engines. 3 hours, second half-year. Professor PUPIN

5—Elementary thermodynamics and hydromechanics. Thermodynamics, 2 hours, first half-year; hydromechanics, 2 hours, second half-year. Mr. PFISTER

6—Theory of dynamo and motor (introductory), covering elements of the theory of electric, magnetic, and electro-dynamic potential, theory of electro-magnetic and electro-dynamic induction, and its application to the theory of an ideal dynamo. 3 hours, first half-year. Professor PUPIN and Mr. TOWNSEND

7—Theory of direct-current dynamo and motor, covering Hopkinson's theory of dynamo and motor designing, and Froelich's method of dynamo and motor testing. 3 hours, second half-year. Professor PUPIN and Mr. TOWNSEND

8—Theory of alternators and transformers. 3 hours, first half-year. Professor PUPIN

9—Theory of variable currents, particularly the theory of polyphase and of high frequency and high potential currents. 3 hours, second half-year. Professor PUPIN

10—Advanced theoretical mechanics—General principles of kinematics, statics, and kinetics; methods of Lagrange, Hamilton, and Jacobi; application of the doctrine of energy to the interpretation of mechanical phenomena. Lectures, 2 hours. Professor WOODWARD

11—Theory of the potential function—General exposition of theory; derivation of equations of Laplace and Poisson, and theorems of Gauss, Green, and Stokes; with application to problems in gravitation, hydromechanics, static electricity, and terrestrial magnetism. Lectures, 2 hours. Professor WOODWARD

12—Geodynamics—Amount and distribution of the earth's mass; phenomena of precession, nutation, and oceanic tides; variation of density, gravity, and pressure within the earth; thermal properties and secular contraction; mechanics of crumpling and crust movements. Lectures, 2 hours. Professor WOODWARD

13—Mathematical theory of elasticity—Analysis of stresses and strains and expression of strains in terms of stresses; discussion of potential energy of strained media and the constants essential to define them; theory of wave motion in elastic media, with applications to sound and light. Lectures, 2 hours. Professor WOODWARD

14—Maxwell's theory of electricity and magnetism. Lectures, 2 hours. Professor PUPIN

14a—Theory of Bessel's functions and spherical harmonies. Lectures, 1 hour. Professor PUPIN

15—Electro-magnetic theory of light—Theory of dispersion, absorption, and polarization. Lectures, 3 hours, first half-year. Professor PUPIN

16—Advanced thermodynamics, including its application to thermo-electricity and thermomagnetism, physical chemistry, and caloric engines. Lectures, 2 hours. Professor PUPIN

17—Theory of oscillations. 2 hours. Professor PUPIN

18—Theory of the conduction of heat in solids; with applications to spheres, cylinders, and parallelopipeds. Lectures, 2 hours. Professor WOODWARD

19—Analytical mechanics, abridged course. 2 hours, Mr. PFISTER

20—Thermodynamics and hydromechanics, abridged course. 2 hours. Mr. PFISTER

21—Elementary mechanics. Loney's *Elements of Statics and Dynamics*. 3 hours, first half-year. Mr. PFISTER

## A—Undergraduate Courses \*

COURSE PRE-REQUISITES	REQUIRED OF	DESCRIPTION AND INSTRUCTORS	
1—Chemistry I } Physics I }	{	Third-year students in Metallurgy, Mining Engineering, and Chemistry.	General metallurgy—Introductory. 2 hours lectures during October, November, and December. Mr. SROUGHTON
2—Course I	{	Fourth-year students in Mining Engineering and Industrial and Organic Chemistry.	Metallurgy of steel and iron—Shorter course. 3 hours a week during January. Professor HOWE
3—	{	Second-year students in Civil Engineering.	Metallurgy of iron and steel—Longer course. 2 hours lectures, second half-year. Professor HOWE
4—	{	Third-year students in Metallurgy and Mechanical Engineering.	
5—	{	Fourth-year students in Analytical Chemistry and Electrical Engineering.	
6—†Courses 3, 4, and 5	{	Fourth-year students in Metallurgy, Mining Engineering, and Chemistry.	Metallurgy of copper. 2 hours recitations during October, November, and December. Professor HOFMAN
6A—†	{	Third-year students in Metallurgy, Mining Engineering, and Chemistry.	Metallurgy of the other non-ferrous metals. 2 hours recitations during January and through second half-year. Mr. SROUGHTON
20—	{	Fourth-year students in Mining Engineering.	Laboratory work—Longer course. 3 afternoons a week, second half-year. Professor HOWE, Mr. SROUGHTON, and Mr. GEROMANOS
21—	{	Students in Metallurgy and Mining Engineering, between third and fourth years.	Laboratory work—Shorter course. 10 afternoons in January. Professor HOWE, Mr. SROUGHTON, and Mr. GEROMANOS
	{	Students in Metallurgy and Mechanical Engineering, between third and fourth years.	Summer course in non-ferrous metallurgy. Mr. SROUGHTON
	{	Students in Metallurgy and Mining Engineering, between third and fourth years.	Summer course in iron and steel. Mr. SROUGHTON

\* Courses 1, 3, and 6A, or 1, 2, 4, and 6A together count as a minor for the degree of A.M. or Ph.D.

† Pre-requisite or parallel.

## Metallurgy

HENRY MARION HOWE, A.M., B.S.....	<i>Professor</i>
BRADLEY STOUGHTON, Ph.B., B.S.....	<i>Instructor</i>
HERCULES WALLACE GEROMANOS, B.S.....	<i>Tutor</i>
HEINRICH O. HOFMAN, E.M., Met.E., Ph.D.....	<i>Lecturer</i>

Non-resident lecturers for 1902-1903: James Douglas, LL.D., President of the Copper Queen Consolidated Mining Company; H. O. Hofman, E.M., Met.E., Ph.D., Professor of Metallurgy, Massachusetts Institute of Technology; Joseph W. Richards, Ph.D., Professor of Metallurgy, Lehigh University; Richard Moldenke, Ph.D.; Edward D. Peters, M.D.; Joseph Struthers, Ph.D.

## Courses

*For fuller description of courses, see the Announcement of the School of Mines.*

### A—Undergraduate Courses

(See page 137)

Special students who are not graduates of some college or scientific school can rarely be admitted to these courses. Great stress is laid on the Metallurgical Laboratory courses.

### B—Graduate Courses

Special courses, consisting of personal instruction and original experimental investigation, will be arranged for advanced students according to their individual needs and ability. Some of these investigations will be made at metallurgical works into processes in actual use there, others in the metallurgical and analytical laboratories of the department.

Nineteen of these courses have been outlined and are set forth in the Announcement of the School of Mines. They include advanced courses in pyrometry, the microstructure of metals and alloys, the chemistry of roasting processes, etc., etc.

### C—Summer Courses

Two courses of one week each are given at metallurgical works in studying the operations there carried out. The students are given individual and class instruction and are required to make complete descriptions of the various processes, including sketches of furnaces and apparatus. These courses are held in the vacation between the third and fourth years. Course 20, required of students in Mining Engineering, visits copper, lead, gold, and silver works; Course 21, required of students in Mechanical Engineering, visits iron and steel works. As the two courses are given at different times, students in metallurgy are required to attend both. Mr. STOUGHTON

**METALLURGICAL EXCURSIONS**—During the term the students are taken to the metallurgical establishments in the vicinity of the city, embracing iron blast furnaces, and Bessemer, open-hearth, and puddling works, the smelting of lead and copper ores, the Bessemerizing of copper matte, the refining of copper by furnace and electrolytic methods, the desilverizing of base bullion by zinc, and the parting and refining of gold and silver by both electrolytic and acid methods.

### Equipment

**LECTURE DIAGRAMS**—There is an important collection of large lecture diagrams, prepared with great care, and many of them colored, illustrating the various metallurgical furnaces and appliances, and also showing graphically the sequence of operations in many metallurgical processes, and illustrating these processes in a realistic way.

In addition the lectures are illustrated, not only by the models referred to below, but more especially by actual demonstrations, as, for instance, in the heat-treatment of metals, in the wet metallurgical processes, in the rolling of metals, for which purpose a small roll-train is used, and in other like ways.

**MODELS AND DRAWINGS**—There is an excellent collection of models of metallurgical apparatus, furnaces, Bessemer converters, roll-trains, etc., and a very large number of detailed drawings, most of them copied from the working drawings of establishments in actual operation.

**METALLURGICAL COLLECTION**—There is a collection of about 3000 specimens of ores, slags, metals, fuels, refractory materials, and the intermediate and final products of the more important metallurgical processes. Suites of specimens of great educational value, either prepared in the laboratories of the department or given to it, are added frequently.

**MICROSCOPIC SPECIMENS**—Microscopic sections of metals and alloys, and photomicrographs of them, are prepared by the department and received by gift and exchange, and are rapidly forming a valuable collection, especially important to students of the micrography of metals.

**ANALYTICAL LABORATORY**—The department has an analytical laboratory open to the students in metallurgy.

**METALLURGICAL LABORATORY—I. *Instruments of Precision of Metallurgy***—Of these the most important are pyrometers, calorimeters, and microscopes for examining metals and alloys. To pyrometry very great attention is paid, and to this end there are enough Le Chatelier thermo-electric pyrometers to give each student the exclusive use of one throughout his course. In addition there are Le Chatelier pyrometers of great precision, and two with autographic attachments of the Roberts-Austen and Campbell types. There are also pyrometers of the Siemens, Ducretet, photometric, and air thermometer types, high-temperature mercury thermometers, etc.

For the extremely important subject of the microscopic study of metals, many powerful microscopes specially adapted to this work are provided, together with appliances for grinding, polishing, and photomicroscopy.

There are many other valuable instruments, such as calorimeters, sclerometers, a drop-testing machine, special testing machines for metals, ammeters, etc., etc.

2. *For Analytical Metallurgy*, or the study of the principles and reactions of metallurgy taken singly as distinguished from the several industrial processes each taken as a unit, beside the instruments just enumerated there are many special furnaces, in large part designed specially for this department, heated by gas or by electric resistance, and so arranged that any predetermined temperature within limits can be reached and held accurately; gas forges permitting easy inspection and control of the bodies under experiment; a small power-driven roll-train for studying the influence of work and finishing temperature on the properties of metals; a special apparatus for fuel-gas analysis, etc.

3. *For Applied Metallurgy*, the laboratory has a cupola furnace for smelting ores of copper and lead, an English cupelling furnace for cupellation and for "bringing forward" copper matte and refining black copper, a small reverberatory roasting furnace, a set of lixiviating and precipitating vats, a battery of amalgamating pans, kettles for desilverizing lead, a chlorinating barrel, storage batteries, voltmeters, and ammeters for electrolysis, etc., etc.

Besides all this special apparatus there are also the common forms, such as crucible melting furnaces, muffles, etc., and ores, refractory materials, and fluxes.

There is a large assortment of alloys, and especially of steels and irons, which give opportunity for an extended range of investigation into their properties.

4. *Advanced Students*—The laboratory offers to advanced students and properly equipped practitioners unusual advantages for investigating with great accuracy the scientific and many of the economic problems of metallurgy.

**METALLURGICAL LIBRARY**—The metallurgical department has its own metallurgical library and reading room, containing about twelve hundred volumes of metallurgical treatises, text-books, periodicals, etc.

## Mineralogy

ALFRED J. MOSES, E.M., Ph.D.....	<i>Professor</i>
LEA McI. LUQUER, C.E., Ph.D.....	<i>Instructor</i>
AUSTIN FLINT ROGERS, A.B., Ph.D.....	<i>Tutor</i>
J. S. McCORD, B.S.....	<i>Assistant</i>

Courses 2, 3, 5, 6, 12, and 13 are open to properly qualified students in Columbia College. Course 12 is required of first-year students in Mining Engineering and

Chemistry; Course 13, of first-year students in Metallurgy; Course 5, of second-year students in Civil Engineering; Course 6, of second-year students in Mining Engineering and Metallurgy; and Course 8, of third-year students in Organic Chemistry.

Courses 5, 6, 7, 9, 10, 11, and 12 may be counted toward the degrees of A.M. and Ph.D. Course 7 is especially a minor course for geologists, Course 9 a minor course for chemists, and Courses 10 and 11 major courses for mineralogists. For details see the Announcement of the Faculties of Political Science Philosophy, and Pure Science which will be furnished on application to the Secretary of the University.

Courses 7, 9, 10, and 11 are open to women.

The following courses or their equivalents are pre-requisite: Physics 31 for Courses 2, 3, 12, 13; Chemistry 6 for 3, 12, 13; Course 2 for 8; Course 3 for 7, 9, 10, 11; Course 5 for 6.

### Courses

12—Descriptive and determinative mineralogy—First half-year: The elements of crystallography. The use of the blowpipe in determination of silicates and borates. The minerals of carbon and sulphur, the borates and the rock-forming silicates. Second half-year: The blowpipe analysis of ores and other substances, and the study of the important economic minerals. 3 hours lectures and conferences, 2 afternoons laboratory. Professor MOSES, Dr. LUQUER, Dr. ROGERS, and Mr. McCORD

13—Descriptive and determinative mineralogy—A modification of Mineralogy 12, in which the work of the first half-year is reduced to 2 hours per week in introductory mineralogy and the study of the common silicates, the second half-year being as in Mineralogy 12. First term, Dr. LUQUER; second term, Professor MOSES

2—Crystallography—General characters, laws, forms, simple measurements, and calculations. 2 hours lectures and conferences, first half-year. Professor MOSES

8—Physical crystallography—Short laboratory course in determination of physical characters of crystals. 1 hour lecture, 1 hour laboratory, second half-year. Professor MOSES

3—General mineralogy—Principles and laws; crystal forms, appearance, properties, and practical determination of common minerals; physical properties of crystals with elementary determination of physical constants and geometric form. 2 hours lectures. 1 afternoon laboratory. Professor MOSES and Dr. ROGERS

5—The minerals of building-stones—Study of common species, their properties, methods of determination, and their economic effect on building-stones. 2 hours lectures, and one afternoon laboratory during first half-year. Dr. LUQUER and Dr. ROGERS

6—Optical mineralogy—Principles and apparatus. The distinguishing characters of minerals in thin sections. 2 hours lectures and 3 hours laboratory for two months. Dr. LUQUER and Dr. ROGERS

7—Optical mineralogy—Longer course, including determination of optical constants; study of microstructure; micro-chemical tests; separation of constituents and preparation of sections. 12 hours for one year or 6 hours for two years. Dr. LUQUER

9—Physical crystallography—Optical, thermal, electric, and magnetic properties of crystals, with experiments; the geometric form with measurement and delineation; the effects of mechanical forces; theories of structure. 1 hour lecture and 1 afternoon laboratory. Professor MOSES

10—Physical crystallography—Longer course, including study of the crystals of some group. 12 hours for two years. Professor MOSES

11—Mineralogy—Study of assigned group or species. 12 hours for two years. Professor MOSES

### Equipment

The work of the students in the college courses and in general mineralogy is performed in the blowpipe laboratory, a large room with conference tables and seats for about 75 men, and in the adjoining conference-room, in which are the student collections of crystal models and minerals and several thousand unlabelled specimens used in determinative work. The department possesses also about 1200 sections of minerals and rocks, and 1500 crystal models in wood and glass. Students in optical mineralogy use a separate room with north light, and for crystal measurements and monochromatic light determinations there is provided a large dark room.

Attached to the department is the Egleston Mineralogical Museum, containing about 30,000 labelled specimens, and including a systematic collection, an economic collection of ores, building materials, and minerals used in chemical industries, a collection illustrating the genesis and alteration of minerals, a collection illustrating the character of minerals, and small collections of artificial minerals and New York City minerals.

Among the collections of minerals that have been presented to the museum from time to time, the largest is that of Dr. Egleston, consisting of about 5000 specimens. Others that may be mentioned are: the Gillmore collection, made in Paris under the direction of the Abbé Haüy, and presented by the late Gouverneur Kemble of West Point; a collection of Schulsberg (Wis.) stalactites, exhibited at the Sanitary Fair; a fine suite of Russian minerals, presented by the Czar; a collection of American minerals, presented by the late Geo. T. Strong; two of the finest cerussites in the world; the Julien collection of minerals from Chesterfield, Mass.; the collection of Professor How, of King's College, Nova Scotia; and a very valuable collection made by Dr. Egleston in Japan.

In addition, a large number of gifts have been received, and these have been supplemented by careful purchasing and exchanging.



## Mining

HENRY S. MUNROE, E.M., Ph.D.....	Professor
ROBERT PEELE, E.M.....	Adjunct Professor
EDWARD L. KURTZ, E.M.....	Instructor
JAMES FARLEY McCLELLAND, E.M.....	Lecturer
— — — — —	Assistant

*For a more detailed statement of the scope of the work in Mining the reader is referred to the special announcement of the School of Mines for 1902-03.*

Courses 1, 2, 3, 7a, and 11 are required in the third year, and 4, 5, 6, 7, 8, 9, and 10 in the fourth year, of candidates for the degree of Engineer of Mines.

Courses 3 and 7a are required in the third year, and 4, 9, and 10 in the fourth year, of candidates for the degree of Metallurgical Engineer.

All the above courses, 1 to 11, are open to candidates for A.M. and Ph.D. in certain combinations as detailed in Courses 19, 20, 21, 22, and 23.

Courses 12 to 23 are intended as suggestions for lines of advanced study and investigation open to candidates for higher degrees. Courses 12, 13, 14, and 15 may be taken as major or minor subjects for A.M. or Ph.D. Courses 16, 17, 18, 19, 20, 21, and 22 are minors for A.M. Course 23 counts as a major and one minor for A.M.

With the exception of Courses 4, 5, and 7a, the mining courses are progressive, and must be taken in the order required of regular students. Pre-requisites for Course 1 are the entrance requirements in Mathematics, Chemistry, and Physics. In addition, the pre-requisite or parallel courses for Course 3 are: Mineralogy 3 or 4, and Geology 2 and 3; for Course 6, Civil Engineering 12 and 17; for Course 7, Civil Engineering 5, and Mechanical Engineering 11; for Course 8, Mechanical Engineering 1 and 2; for Courses 9 and 11, Civil Engineering 15. For Courses 4 and 5 the pre-requisite and parallel courses are Physics 1 or 2, Mineralogy 12 or 13, and Mechanics 1 or 2. All the undergraduate courses are pre-requisite to Courses 12, 13, 14, 15, 16, 17, and 18.

## Courses

1—Excavation and tunnelling. Excavation of earth and rock; mechanical excavators, explosives. Drilling and blasting. Driving and support of railroad and mine tunnels. 3 hours, first half-year. Professor PEELE

2—Boring and shaft-sinking. Earth augers. Deep boring in rock. Drop-tool systems with rods or rope. Diamond drilling. Methods of sinking and lining shafts in rock and soft ground. 2 hours, second half-year. Professor PEELE

3—Prospecting, exploration, development, and methods of working. 3 hours, second half-year. Professor MUNROE

4—Ore dressing, milling, and the mechanical preparation of coal. 2 hours. Professor MUNROE

5—Ore-dressing laboratory. Mechanical testing of ores and coal by laboratory methods. Working tests with simple dressing apparatus. Adjustment and operation of concentrating machines. Afternoon

work for three weeks, second half-year. Professor MUNROE, Mr KURTZ, and Mr. McCLELLAND

6—Mine engineering. Surface handling and transportation; trans-shipment and storing of minerals. Drainage. Water supply. Ventilation. Accidents. 2 hours, first half-year. Professor MUNROE

7—Mine plant. Description and critical discussion of the machinery and appliances employed in the equipment of mines; comprising the subjects of hoisting, drainage, ventilation and compressed air plant, machine drills, coal cutters and underground haulage. 3 hours. Professor PEELE

7a—Mine constructions. Building materials, masonry and timber construction, retaining walls, trestles, and ore-bins. 1 hour, second half-year. Professor PEELE

8—Design of mine plant and graduating project. As a part of his graduating project each student makes working drawings of specified portions of mine plant. These drawings, together with the descriptions, specifications, and estimates comprised in the project, are made under supervision and advice. 4 afternoons first half-year and 3 afternoons second half-year. Professor PEELE, Mr. KURTZ, and Mr. McCLELLAND

9—Mine surveying. 1 hour, second half-year. Professor MUNROE

10—Administration, organization, and business management, mine accounts, and cost sheets. Examination and valuation of mines. 1 hour, second half-year. Professor MUNROE

### Summer Course

11—The summer course of practical mining is held in June and July, in the vacation between the third and fourth years, and lasts six weeks. Professor PEELE, Mr. KURTZ, and Mr. McCLELLAND

The course of instruction includes three weeks' detailed study of the plant and methods of working at some important mine or mines selected for the purpose; one week mine surveying; one week excursion to other mines and mining regions; and one week geological work, surface and underground.

### Graduate Courses

Special courses, consisting of personal instruction, reading, and experimental investigation, will be arranged for advanced students according to their individual needs and ability. These investigations will be made at mines and dressing works either in connection with the summer school or elsewhere as assigned, with additional work, as required, in the library and in the laboratories of the department. These courses vary in difficulty and in the amount of time necessary, according as the student is a candidate for the degree of A.M. or Ph.D., and according as he pursues Mining as a major or a minor subject.

The time required is governed by the rule that a course or courses should occupy about 18 hours a week (outside reading and study included) if taken as a major subject, and about 9 hours a week if taken as a minor subject. The following are suggested:

12—Methods of mining—Critical study of methods used in some mining region, or for a certain class of deposits; output per man, amount of timber and explosive required, and other details affecting cost. Study of conditions as determining choice of method. Determination of loss of mineral in mining. Accidents to men.

13—Mining plant—Critical study of rock drilling, or coal cutting, or hoisting, or haulage, or ventilating plant at some mine or mines. Determination of efficiency and conditions affecting same.

14—Deep mining—Study of problems of deep mining, vertical versus inclined shafts, hoisting and pumping from great depths, temperature and ventilation, efficiency of labor, rock pressure as affecting methods of mining and timbering.

15—Ore dressing—Critical study of some detail of the ordinary dressing methods, crushing, or screening, or classification, or jigging, or slime treatment, or dry concentration, or magnetic separation, or milling of gold or silver ores, or mechanical preparation of coal. Determination of efficiency, and of conditions essential to success.

16—Examination of a coal-washing plant, or an ore-dressing plant—4 to 6 weeks' work in the mill and in the laboratory, with conferences.

17—Examination of a mineral property, or a mine—4 to 6 weeks devoted to field and underground work in the summer school of practical mining, with conferences at convenience of professor.

18—Economic studies in mining—Study of existing conditions affecting the production and cost of some mineral or metal, as, for example, anthracite coal, copper, or gold.

19—Mining and ore dressing—Mining 3, 4, and 5. 4 hours, with laboratory work and reading as required.

20—Mining engineering—Mining 3, 6, 9, and 10. 4 hours lectures and reading as required.

21—Design of mine plant—Mining 7, 7a, and 8. 3 hours and 5 afternoons draughting-room work.

22—Design of ore-dressing works—Mining 4, 5, 7a, and 8, with 1 hour conference additional, first half-year. 3 hours and 5 afternoons laboratory and draughting-room work.

23—Mining—1, 2, 3, 4, 5, 6, 7, 7a, 8, 9, 10, 11, being all the undergraduate courses in the department of Mining.

### Equipment

LECTURE ILLUSTRATIONS—The lectures on mining are illustrated by over 40,000 blue prints from negatives made for the purpose. These

prints are collected in scrap-books illustrating the different courses of lectures, and each student has the use of one of these books for reference during the lecture, and for home study. These blue prints have many advantages over the usual form of lecture illustrations by lantern-slides or wall diagrams. The latter are, however, used when necessary to supplement the blue prints.

**MINING LIBRARY**—The University Library contains complete sets of the transactions of all mining, metallurgical, and engineering societies, and of the more important periodical publications on these subjects. There is also a large and complete collection of books on mining, and all new publications of value are added as they appear. In addition, a small departmental reference library has been created, which is accessible to students at all times.

**MINING MUSEUM**—The subject of mining is illustrated by collections as follows: Maps of coal and metal mines of this and other countries. Working drawings, diagrams, and photographs of mine plant, and of mining and dressing machinery. Models of mines and parts of mines and of mine plants. Mining tools: picks, shovels, hammers, drills, blasting apparatus, lamps, safety-lamps, anemometers, hand-power and machine drills. Ores and dressing products from typical works in this and other countries. Surveying instruments: geological compasses and clinometers, attraction compasses, dipping needles, hanging compasses and arcs, transits, lamp signals, rods, and apparatus for plumbing and measuring shafts.

Among the more notable exhibits are large relief models of two mines of the Cleveland Cliffs Iron Mining Co. of Michigan, a similar model of the Saratoga gold mine in Colorado, a set of three glass models and two relief models of the Copper Queen mine in Arizona, a glass model of the Calumet and Hecla and Tamarack copper mines, a large model of a standard oil-well drilling rig, and a large model of the St. Joseph Lead Co's dressing works at Bonne Terre, Missouri.

A very complete collection of working drawings of mine plant, and an unusually large collection of underground photographs, taken by magnesium light, are worthy of particular notice.

**MINING LABORATORIES**—Seven large rooms in the basement and sub-basement of Engineering are equipped as laboratories for the department of Mining. These laboratories are not intended to replace the careful study of mining methods and of the operations of ore dressing at the mines and dressing works in connection with the summer school of mining, but are intended to supplement such study, and in particular to afford opportunities that cannot be obtained at the mines.

**MINES AND DRESSING WORKS**—Numerous coal, iron, and other mines, slate and stone quarries, and metallurgical works are easily accessible from New York in from one to four hours by rail; magnetic iron mines in New York, New Jersey, and Pennsylvania; hematite

mines and stone quarries in the same states and in Connecticut; anthracite mines in Pennsylvania; and zinc mines in New Jersey and Pennsylvania. New York and adjacent states produce each year half the pig-iron and coal, and over forty per cent. of the total value of the mineral product of the whole country. New York City is the headquarters of numerous corporations operating mines and metallurgical works in this and other countries, and is one of the most important mining centres of the world. Within a radius of one hundred miles of New York City may be studied the best practice in mining and metallurgy under most varied conditions, and the most modern and effective mining and dressing machinery and smelting plants in the country. By going a little farther, one may reach the bituminous coal fields and the natural gas, oil, and salt regions in one direction, and the pyrites deposits and granite and marble quarries in Vermont in the other; while the excursions of the summer class in mining extend as far as the iron, copper, zinc, lead, silver, and gold regions of Michigan, Missouri, Montana, Colorado, and Utah.

The metropolitan situation of the school renders it possible to present, also, as parts of the regular courses in mining, special lectures by prominent engineers. The list of such lectures for 1902-03 and more detailed information as to the courses offered and as to the facilities for instruction will be found in the *Announcement of the School of Mines* for this year.

### Music

\*EDWARD ALEXANDER MACDOWELL, Mus. Doc. . . . . *Professor*  
LEONARD BEECHER MCWHOOD, A.B. . . . . *Tutor*  
GUSTAV HINRICHS. . . . . *Conductor*

The courses in this department fall into four divisions: the technique of musical composition, general musical culture, musical dictation, and practical training in orchestral and choral music. The aim of the technical courses is to teach music theoretically and scientifically with a view to training musicians competent to teach and to compose. In the general courses, music is treated historically and æsthetically as an element of liberal culture; the technical side of the art is explained, and the lectures are supplemented by illustrations and analysis. Courses 1, 2, 5, and 11 are not given in 1902-03.

All courses are open to undergraduate students, to university students, to special students of music, and to auditors; and all, except Course 8, to women on the same terms as to men.

Course 2 is open only to students that have taken Course 1, and to others equally well qualified. Similarly Courses 4 and 7 presuppose 3, 10 presupposes 3 and 6, 11 presupposes 7, and 5 presupposes 4 and 11.

Courses 8 and 9 count toward a degree only when taken in connection with some other course in Music.

\* Absent on leave.

## Courses

[1—General musical course—The origin of music and its relation to speech and the emotions. Primitive music and instruments. The history of music from the earliest times up to the 19th century. Acoustics; form; analysis; musical instruments in use up to the present century, with practical illustrations. 1 hour. Professor MACDOWELL]

[2—General musical course, advanced—This course, which is a continuation of Course 1, treats of the development of forms, the song, romanticism, instrumental development and the composers for piano-forte, the virtuoso, modern orchestration and symphonic forms, the music drama, impressionism *versus* absolute music, and color *versus* form, the relationship of music to other arts, musical criticism. 1 hour. Professor MACDOWELL]

3—Harmony—This course treats of general theory, harmony, chords and their mutual significance, altered chords, suspensions, modulation, and analysis. 2 hours. Lectures and class-work. Mr. McWHOOD

Open to all students

4—Counterpoint—This course treats of counterpoint, canon, fugue, and analysis. 2 hours. Lectures and class-work. Mr. McWHOOD

[5—Orchestration and symphonic form—This course treats of free composition, analysis, instrumentation, and symphonic forms. 2 hours. Lectures and class-work. Professor MACDOWELL]

6—Musical dictation—Melodic and rhythmic dictation, and the beginning of harmonic dictation. 1 hour. Mr. McWHOOD

7—Advanced harmony and practical composition—This course treats of free harmony and the practical composition of music. It may be considered as a continuation of Course 3. 1 hour, first half-year. Mr. McWHOOD

\*8—University chorus. 2 hours. Mr. HINRICHs

9—University orchestra. 2 hours. Mr. HINRICHs

10—Musical dictation, advanced. This course treats, especially, of harmonic dictation. 1 hour. Mr. McWHOOD

[11—Free composition, advanced. This course, which is a continuation of Course 7, should be taken in connection with Course 4. A thorough knowledge of harmony and some experience in composition are required. 1 hour. Professor MACDOWELL]

12—Analysis of musical sound. 1 hour, second half-year. Mr. McWHOOD

\* A chorus for women, in session one hour weekly, is conducted by Mr. HINRICHs, at Barnard College.

### Equipment

A collection of music and of books of reference is placed at the disposal of students. It includes many orchestral and opera scores, the piano-forte classics, and vocal music, besides many theoretical, historical, and biographical works. The department has also a collection of instruments for the use of students participating in the university orchestra.

### Neurology

M. ALLEN STARR, M.D., LL.D.	.....	<i>Professor</i>
FREDERICK PETERSON, M.D.	.....	<i>Chief of Clinic, Clinical Lecturer on Mental Diseases</i>
PEARCE BAILEY, M.D.	.....	<i>Instructor</i>

#### *Clinical Assistants*

C. E. ATWOOD, M.D.,	STUART HART, M.D.,
R. H. CUNNINGHAM, M.D.,	WALTER TIMME, M.D.,
S. P. GOODHARDT, M.D.,	E. L. HUNT, M.D.,
SMITH ELY JELLIFFE, M.D.,	J. E. CLARK, M.D.,
B. E. KRYSTALL, M.D.,	ARTHUR B. WRIGHT, M.D.
L. M. GIBSON, M.D.,	L. PIERCE CLARK, M.D.
L. S. MANSON, M.D.	H. R. HUMPHRIES, M.D.

### Courses

- 1—Didactic lectures with lantern demonstration on nervous diseases. 1 hour, five months for two years. Professor STARR  
[Brain, 1903.] Spinal Cord and Nerves, 1902.
- 2—Clinical lectures. 1 hour, F., 2 P.M. Professor STARR
- 3—Section teaching—Practical neurology. Ten lessons. Dr. PETERSON and Dr. BAILEY
- 4—Clinics on insanity. 4 hours in March. Dr. PETERSON

### Normal Histology

(See page 158)

### Obstetrics

EDWIN B. CRAGIN, M.D.	.....	<i>Professor</i>
JAMES D. VOORHEES, M.D.	.....	<i>Instructor</i>
RALPH W. LOBENSTINE, M.D.	.....	<i>Instructor</i>

### Courses

- 1—Theory and practice of obstetrics—Lectures. 3 hours, from October 1 to March 15. Professor CRAGIN  
Course 1 is required, in the third year, of candidates for the degree of M.D.; Course 2, in the second year; Course 3, in the fourth year.

2—Recitations and demonstrations. 1 hour for each student in the second year of the curriculum. One sixth of the class receives instruction daily, by recitations and demonstrations, in which specimens and models from the anatomical, physiological, and pathological museums are used. Dr. VOORHEES

3—Practical instruction at the Sloane Maternity Hospital—Members of the graduating class in medicine are required each to attend at this hospital a certain number of cases of labor. For this purpose the students of the fourth year are divided, at the beginning of the academic year, into sections of six, each section remaining on duty for two weeks. Dr. LOBENSTINE

### The Sloane Maternity Hospital

The Sloane Maternity Hospital is situated upon the grounds of the College of Physicians and Surgeons, and the service is under the exclusive direction of the Professor of Obstetrics in the College, one of the Instructors in Obstetrics being the resident physician.

The wards of the Hospital since its recent enlargement furnish one hundred and sixteen beds, and there are ample accommodations for the house staff, students, and nurses.

The operating-room is equipped with all modern surgical and obstetrical conveniences, and has seating accommodations for fifty-one students.

The number of deliveries averages over fourteen hundred a year. These, with the obstetric operations and the subsequent treatment of women and infants, afford invaluable practical experience, such as is offered at no other medical school in this country.

## ORIENTAL LANGUAGES

### Chinese

FRIEDRICH HIRTH, Ph.D. . . . . *Dean Lung Professor*  
ROBERT J. H. KLIENE . . . . . *Assistant*

### General Statement

The work in this department, based on the Dean Lung foundation, is designed to include courses on the languages, literature, history, religion, and laws of China and also some general subjects relating to the Far East. The plans for the first year comprise an introductory course on Chinese, so as to give the student an elementary equipment for further linguistic work. Arrangements also have been made for a course on the general history of China. The Columbia Library is already equipped with a serviceable collection of Chinese texts and of works relating to China. The basis of this collection was made by the gift of the Chinese Foreign Office. Special effort will be



made to increase this collection during the coming year by further purchases.

*Those who are interested in this work of the department of Chinese may, by applying to the Secretary of the University, obtain more detailed information regarding it than it is possible to include in this edition of the University Catalogue.*

### Indo-Iranian Languages

A. V. WILLIAMS JACKSON, L.H.D., Ph.D.....*Professor*  
ABRAHAM YOHANNAN, Ph.D.....*Lecturer*

The courses of instruction in the department of Indo-Iranian Languages are intended to be introductory to the study of comparative philology and of the history of religion, as well as to the study of the history, antiquities, and literature of India and Persia and also of Armenia. The course arranged for beginners in Sanskrit, Indo-Iranian 1, may be taken with advantage in connection with any of the Latin, Greek, or other linguistic courses.

Courses 1, 2, 3, and 11 are open to all university students (including seniors in Columbia College as well as candidates for higher degrees and special students). In the case of Course 1, candidates for higher degrees will be required to supplement the study by some additional work that will be assigned, or by taking some kindred course in the department. Course 1 may also be taken as an elective by juniors in the College. Courses 4, 5, 6, 7, 10, and 12 are open to advanced students only. Courses 8 and 9 are open to students pursuing one other course in the department. Course 13 is open to seniors in the College and to university students.

Courses 1, 3, 11, and either 2 or 4 are intended to be given each year. Courses 5, 6, 7, 8, and 12 form a supplementary series. Two of this series will be given each year according to the requirements of the students in attendance.

Course 9, on some special Iranian subject, Course 10, on Zoroaster and Buddha and their teachings, and Course 13, on the history of India and Persia, will be offered every second or third year.

Course 11 is open to auditors, and to women on the same terms as to men.

### Courses

1—Sanskrit, elementary course. Whitney's *Grammar*, Perry's *Primer*, Lanman's *Reader*. 3 hours. Professor JACKSON

[2—Avestan, elementary course—Grammar and reading of texts. Jackson's *Avesta Series: Part I, Grammar; Part II, Texts*. 2 hours. Professor JACKSON

Not given in 1902-03. To be given in 1903-04.]

3—Sanskrit, advanced course. First half-year: Dandin's *Daśa-*

*kumāracarita* with the native Commentary; or a Sanskrit drama. Second half-year: Introduction to the study of the Veda. 2 hours. Professor JACKSON

4—Avestan, advanced course—Interpretation of texts, antiquities, and literature. Geldner's *Text of the Avesta*. 2 hours. Professor JACKSON

5—Pāli, elementary course. E. Muller's *Simplified Pāli Grammar*, Elwell's *Nine Jātakas*. 1 hour. Professor JACKSON

[6—Old Persian cuneiform inscriptions. Spiegel's *Die altpersischen Keilinschriften*, Bartholomae's *Handbuch der altiranischen Dialekte*, Weissbach and Bang's *Die altpersischen Keilinschriften*. 1 hour, first half-year. Professor JACKSON

Not given in 1902-03. To be given in 1903-04.]

[7—Pahlavi, introductory course. C. de Harlez's *Manuel du Pehlevi*. 1 hour, second half-year. Professor JACKSON

Not given in 1902-03. To be given in 1903-04.]

8—Sanskrit literature—Lectures on some branch of the literature; rapid reading of assigned texts. 1 hour. Professor JACKSON

[9—Zoroastrian Gāthās—Reading of texts with the Pahlavi and the Sanskrit version. 1 hour. Professor JACKSON

Given in 1901-02. To be given again in 1903-04.]

11—Modern Persian, introductory course. First half-year: Grammar and reading. Salemann and Shukovski's *Persische Grammatik*. Second half-year: Interpretation of Sa'di's *Gulistān*. 2 hours. Dr. YOHANNAN

12—Modern Persian, second-year course. Selections from Firdausi, from Omar Khayyām, and from Hāfiz. 2 hours. Dr. YOHANNAN

[13—History of India and of Persia. 2 hours, first half-year. Professor JACKSON

To be given in 1903-04. This course is identical with History 57.]

### Course in Armenian

1—Principles of the grammar, with selected readings. 2 hours. Dr. YOHANNAN

### Seminar

Indo-Iranian seminar. 1 hour. Professor JACKSON

### Lectures

A course of afternoon lectures on the literature, antiquities, and religion of ancient India and Persia, open to all students of the University and to auditors, is given during the winter months. Public announcement of the subjects will be made at the time when these lectures are to be delivered.

### Course in the Science of Language

Introduction to the science of language. 2 hours. Professor JACKSON

This course is open to seniors in the College, and to all university students, men and women alike, and to auditors. It may not be counted toward the degree of Master of Arts or Doctor of Philosophy, except on the basis of special work done in connection with it. It is planned to add in this course a second year of study in which the student shall devote himself to research in the philology of one particular family of languages. In this connection Professor Gottheil and Professor Jackson propose to offer advanced courses in Semitic and Indo-Iranian linguistics

### Semitic Languages

RICHARD J. H. GOTTHEIL, Ph.D. . . . . *Professor*  
JOHN DYNELEY PRINCE, Ph.D. . . . . *Professor*  
ABRAHAM YOHANNAN, Ph.D. . . . . *Lecturer*

Courses 1, 2, 3, 4, 5, 10, 12, 13, 15, 16, 18, and 19, and the seminar, are open to seniors in Columbia College and to university students; Courses 6, 7, 8, 9, 11, 14, and 17, to advanced students only. All the courses in Semitic Languages except the seminar are open to auditors. Courses 1, 2, 4, 10, 11, 12, 13, 15, and 16 are open also to juniors in Columbia College.

Courses 3, 8, 9, and 19 are not given in 1902-03.

Courses 3, 8, and 19 will be given in 1903-04, and Course 9 in 1904-05.

All the courses in Semitic Languages except the seminar are open to auditors.

### Courses in Hebrew

The course in Hebrew extends over three years. The first year is devoted to the study of the elements; the second, to the study of the syntax and the acquiring of ease in translating from Hebrew into English and from English into Hebrew; the third, to a critical study of one or more books of the Bible.

The attention of students in the College is directed to the fact that it is desirable that those who intend entering a theological seminary after graduation shall have had at least two years' previous training in Hebrew. Opportunity for this training is given the students of Columbia College, Hebrew being an elective in both the junior and senior classes.

1—Biblical Hebrew, elementary course—Davidson's *Introductory Hebrew Grammar*. 2 hours. Professors GOTTHEIL and PRINCE

2—Biblical Hebrew, second course—(a) Critical study of Isaiah, Chaps. XL-LXVI. 2 hours. Professor PRINCE. (b) Rapid reading of selections from the historical texts of the Old Testament. 2 hours. Professor GOTTHEIL

[3—Biblical Hebrew, third (lecture) course—Semitic archæology and its bearings upon the study of the Bible. Professor GOTTHEIL]

Other courses in Hebrew are given at the Union Theological Seminary.

4—Lectures on post-Biblical Hebrew literature. 2 hours, first half-year. Professor GOTTHEIL

5—Selected readings from the poets of the Spanish school. 2 hours, second half-year. Professor GOTTHEIL

6—The newly discovered text of Ecclesiasticus compared with the Syriac and Greek versions. 2 hours, second half-year. Professor GOTTHEIL

For Courses 5 and 6 a good knowledge of Biblical Hebrew is required.

### Courses in Semitic Epigraphy

These courses are intended to cover the whole field of Semitic Epigraphy during a period of three years. For Course 7 a previous knowledge of Hebrew is required; for Course 8, of Aramæan; and for Course 9, of Arabic.

7—Interpretation of the Phœnician inscriptions, with an introduction to Semitic palæography and the history of the alphabet. *Corpus Inscriptionum Semiticarum*, Vol. I; Lidzbarski, *Handbuch der nordsemischen Epigraphik*. 1 hour. Professor GOTTHEIL

[8—Interpretation of the Aramæan inscriptions of Sinjirli (*Mittheilungen aus den Orientalischen Sammlungen*, Heft xi, Berlin, 1893), and of the *Corpus Inscriptionum Semiticarum*, vol. ii.]

[9—Interpretation of the Sabæan and Himyaritic inscriptions contained in the *Corpus Inscriptionum Semiticarum*, vol. iv. Professor GOTTHEIL]

### Courses in Assyrian

10—Elementary course—Study of the Syllabary, with readings from Delitzsch's *Assyrische Lesestücke* (4th ed., 1901). 2 hours. Professor PRINCE

Students taking this course will have to provide themselves with Delitzsch's *Assyrian Grammar*.

11—Advanced course—Study of the texts in Haupt's *Assyrisch-Sumerische Keilschrifttexte*. 2 hours, first half-year. Professor PRINCE.

Only such students may take this course who have previously taken the first course or have done an equivalent amount of work.

### Courses in Arabic

12—Elementary course—Study of Socin's *Arabic Grammar*, with exercises in translating Arabic into English and English into Arabic. 2 hours. Dr. YOHANNAN

13—Second course—Study of Brünnow's *Chrestomathie aus arabischen Prosaschriftstellen* (Porta Linguarum Orientalium, pars xvi; Berlin, 1895). 2 hours. Dr. YOHANNAN

14—The modern Arabic dialects, with especial reference to those of Egypt and Syria. Professor GOTTHEIL

The text-books used in this course will be Vollers' *Lehrbuch der Ägypto-Arabischen Umgangssprache*, (Kairo, 1890), and Spitta-Bey's *Contes Arabes Modernes* (Leyden, 1883).

### Courses in Syriac

15—First course. First half-year: Brockelmann's *Syrische Grammatik*, in connection with selected readings from the Peshitta. Second half-year: Interpretations of selected portions of the *Acta Martyrum* (ed. Bedjan). 2 hours. Professor GOTTHEIL and Dr. YOHANNAN

16—Second course. First half-year: Interpretation of Lagarde's *Analecta Syriaca*. Second half-year: Interpretation of the Syriac Grammar *Kethābhā dhesemhē* of Bar Hebraeus. 2 hours. Professor GOTTHEIL.

[In case there should be a demand for instruction in Modern Syriac, Dr. Yohannan will make arrangements for a course.]

### Course in Ethiopic

17—Principles of the grammar, and reading of the extracts in Prætorius' *Äthiopische Grammatik* (Porta Linguarum Orientalium, pars vii; Karlsruhe, 1886). 1 hour. Professor GOTTHEIL

### Courses in Oriental History

18—The ancient history of Western Asia from the earliest times until the period of Alexander the Great. 2 hours. Professor PRINCE

This course will embrace an historical survey of Early Babylonia, the Assyrian Empire, the later Babylonian Empire and the Persian Rule in Babylonia, as well as a briefer discussion of the Egyptian, Phœnician, and Hittite civilizations. Especial attention will be given to the points of contact between the Assyro-Babylonian historical records and the Old Testament, and to the most important ethnological problems which a study of the ancient peoples of Western Asia presents.

This course is identical with History 56.

[19—The rise of Arabian civilization and the spread of Mohammedanism. Professor GOTTHEIL]

This course will treat of the geographical position of Arabia, its early history as recorded upon the monuments, the Sabæans and Himyarites, pre-Mohammedan civilization, the life of Mohammed, the rise of Mohammedanism as a religious system and as a political power, Arabic historiography, the early Caliphs, Ali and his followers, and the Abbasside Caliphs.

This course is identical with History 58.

### Semitic Seminar

20—The seminar will take up the study of current questions in Semitic philology and history with especial reference to modern methods of research.

Tu. evening at 8.15.

Attendance at the seminar meetings will be obligatory upon candidates for the degrees of Master of Arts and Doctor of Philosophy whose major subject is in Semitic Languages. The meetings are open also to advanced students one of whose minor subjects is in the department of Semitic Languages.

### Courses in Coptic

21—Principles of the grammar in connection with a study of Steindorff's *Koptische Grammatik* (Berlin, 1894). 1 hour a week. Professor PRINCE

### Course in Turkish

22—Principles of the grammar in connection with the study of A. Müller's *Türkische Grammatik* (Porta Linguarum Orientalium, pars xi). Second half-year: Exercises in Turkish conversation and in the reading of Turkish newspapers. 2 hours, first half-year. Dr. YOHANNAN

### Courses in Semitic Languages at the Union Theological Seminary

A detailed announcement of these courses is given in the circular issued by the division of Oriental Languages. Such courses may be counted as part of the work required for the degrees of Master of Arts and Doctor of Philosophy.

### Equipment

The Columbia University Library (about 300,000 volumes) contains most of the important periodicals which deal with Oriental research. The Library has quite a rich collection of the publications of the learned societies of Europe—*e. g.*, of the Academies of Berlin, Vienna, Leipsic, St. Petersburg, Brussels, Paris, and Rome (Lincei).

The books relating to East Indian and Iranian subjects in the University Library comprise already a good collection of the most important text-editions and works of reference, and additions are constantly being made. In Semitic philology, most of the best works will be found in the Library; care has been taken, especially in Assyriology, to buy all the more important publications. In the Avery Architectural Library, most of the monumental works relating to Eastern art and archæology will be found. Through the generosity of the trustees of Temple Emanuel, the Library now possesses the most complete collection of works in Rabbinical Hebrew to be found in this country. There is also a small collection of Hebrew, Arabic, and Persian MSS., designed for the use of advanced students. The collections of the University Library are supplemented in the most valuable way in all branches of Orientalia by those of the New York Public Library. A collection of old Babylonian tablets has been added to the department. These, together with the casts of tablets in the Metropolitan Museum of Art, furnish material for

those who wish to devote themselves especially to the study of Babylonian and Assyrian.

The library of the Union Theological Seminary, which is accessible to advanced students at Columbia University, contains all the current theological periodicals.

### Pathology

*(Including Pathology, Normal Histology, Bacteriology and Hygiene, Clinical Pathology, and Photomicrography)*

T. MITCHELL PRUDDEN, M.D., LL.D. . . . . *Professor of Pathology and  
Director of the Associated Laboratories*

GEORGE C. FREEBORN, M.D. . . . . *Instructor in Normal Histology*

PHILIP HANSON HISS, Jr., Ph.D., M.D. . . . *Instructor in Bacteriology and  
Hygiene*

EUGENE HODENPYL, M.D. . . . . *Instructor in Pathology*

FRANCIS C. WOOD, M.D. . . . . *Instructor in Clinical Pathology*

JOHN H. LARKIN, M.D. . . . . *Instructor in Pathology and Curator of the  
Museum of Pathology*

EDWARD LEAMING, M.D. . . . . *Instructor in Photography*

AUGUSTUS J. LARTIGAU, M.D. *Instructor in Pathology and Alonzo  
Clark Scholar*

FREDERICK RANDOLPH BAILEY, M.D. *Instructor in the Normal and  
Pathological Histology of the Nervous System*

JOHN S. THACHER, M.D. . . . . *Demonstrator in Pathological Anatomy*

GEORGE P. BIGGS, M.D. . . . . *Demonstrator in Pathological Anatomy*

OLIVER S. STRONG, Ph.D. . . . . *Assistant in the Normal Histology of the  
Nervous System*

D. STUART DODGE JESSUP, M.D. . . . . *Assistant in Clinical Pathology*

AUGUSTUS B. WADSWORTH, M.D. . . . . *Assistant in Bacteriology and  
Hygiene, and Alumni Association Fellow in Pathology*

CHARLES NORRIS, M.D. . . . . *Assistant in Bacteriology and Hygiene*

CHARLES E. BANKER, M.D. . . . . *Assistant in Normal Histology*

WILLIAM COGSWELL CLARKE, M.D. . . . . *Assistant in Normal Histology*

CYRUS WEST FIELD, M.D. . . . . *Assistant in Pathology*

NORMAN E. DITMAN, M.D. . . . . *Assistant in Clinical Pathology*

LINSLEY R. WILLIAMS, M.D. . . . . *Assistant in Normal Histology*

RALPH E. BUFFINGTON, M.D. . . . . *Assistant in Normal Histology*

For the convenience of administration, and for the better association of allied themes, the laboratories of Pathology, Normal Histology, Bacteriology and Hygiene, Clinical Pathology, and Photography are grouped together in the Department of Pathology under the direction of the Professor of Pathology.

### Courses

*Further details respecting the following courses are to be found in the special Bulletin of Information of the College of Physicians and Surgeons.*

Course 1 in Normal Histology is required, in the first year, of candidates for the degree of M.D. This course may be elected by seniors in Columbia College.

Course 1 in Pathology, 2 in Normal Histology, and 1 in Bacteriology and Hygiene are required, in the second year, of candidates for the degree of M.D.

Courses 2 and 3 in Pathology are required, in the third year, of candidates for the degree of M.D.

Course 1 in Clinical Pathology is required, in the fourth year, of candidates for the degree of M.D.

Course 2 in Bacteriology and Hygiene may be offered as a minor for one year by candidates for the degree of A.M. or Ph.D. Course 3 in Bacteriology and Hygiene may be offered as a major for one year by candidates for the degree of A.M. or Ph.D.

Courses 4 in Pathology, 3 in Histology, and 2 in Clinical Pathology cannot be counted for a degree, and are only open to qualified graduate students by special arrangement with the head of the department.

### Courses in Pathology

1—Autopsy, technique, and pathological anatomy, at the Presbyterian, New York, St. Luke's, or Bellevue Hospitals, once a week for eight weeks. Drs. HODENPYL, THACHER, BIGGS, and WOOD

2—Practical instruction in general pathology, pathological anatomy and histology, and in the bacteriology of the infectious diseases. 6 hours a week for one half of the academic year. Professor PRUDDEN, and Drs. HODENPYL, LARKIN, LARTIGAU, BAILEY, and FIELD.

3—Demonstrations in pathological anatomy. 2 hours a week for one half of the academic year. Drs. HODENPYL, LARKIN, LARTIGAU, and FIELD

4—Pathological anatomy and histology, experimental pathology, bacteriology as applied to medicine, and clinical pathology. Professor PRUDDEN, and Drs. FREEBORN, HODENPYL, WOOD, HISS, and LARTIGAU

### Courses in Normal Histology

1—Practical instruction in general normal histology 6 hours a week for one half of the academic year. Drs. FREEBORN, BAILEY, BANKER, CLARKE, WILLIAMS, and BUFFINGTON

2—Practical instruction similar in character and method to that under 1, but embracing as special themes the central nervous system, the skin, and the organs of special sense. 4 hours a week for one half of the academic year. Drs. FREEBORN, BAILEY, STRONG, BANKER, CLARKE, WILLIAMS, and BUFFINGTON

3—Practical instruction in microscopic technology. Dr. FREEBORN

### Courses in Bacteriology and Hygiene

1—Practical instruction in bacteriology and hygiene. 6 hours a week for one quarter of the academic year. Drs. HISS, WADSWORTH, and NORRIS



2—Special laboratory course in advanced bacteriology and bacteriological technique. This course is given but once during the year, and requires attendance at the laboratory for the entire afternoon in January, February, and March. Drs. HISS, WADSWORTH, and NORRIS

3—Laboratory course—As under Course 2, with additional study and determination of known species of bacteria; special study of the chemical products formed in the growth of bacteria; practical work in photomicrography and the pursuit of some selected theme for original investigation. Professor PRUDDEN, and Drs. HISS, WADSWORTH, NORRIS, and LEAMING

### Courses in Clinical Pathology

1—Practical instruction in clinical pathology. 6 hours a week for one quarter of the academic year. Drs. WOOD, JESSUP, and DITMAN

2—Special laboratory course in clinical pathology. Dr. WOOD

### Photography and Photomicrography

1—Practical instruction is given to a limited number of men in the photographic laboratories of the College, in the technique of photography and photomicrography. Dr. LEAMING

### Research

Research in pathology and bacteriology may be pursued in the laboratories of this department by a limited number of graduate students or practitioners of medicine or other advanced workers. Professor PRUDDEN

### Fellowships

For the fellowships open to persons wishing to do special work under the Professor of Pathology, see page 41.

### Museum

The Museum of Pathology is made use of in the work of this department, both for the instruction of medical students and as a place of deposit for specimens showing new and rare forms of lesions.

### Equipment

The Department of Pathology occupied in the autumn of 1895 the large additional space which the new college buildings furnish. The large class-room on the upper floor of the north wing is used, as formerly, for the class in normal histology and in pathology. The fourth floor is devoted to the pathological museum and to a large preparation laboratory, a workshop, cold storage, and the like. The new space is devoted to a general laboratory and to private rooms for instructors and advanced workers in pathology, to undergraduate

and to research work in bacteriology and hygiene and clinical pathology, and to a departmental library.

The entire space, new and old, is amply lighted, fully furnished, and equipped with such new apparatus as the rapidly growing sciences of pathology, bacteriology, and closely allied themes require.

### Philosophy and Psychology

JAMES McKEEN CATTELL, Ph.D. ....	<i>Professor</i>
*JAMES HERVEY HYSLOP, Ph.D. ....	<i>Professor</i>
MOSES ALLEN STARR, M.D., LL.D. ....	<i>Professor</i>
FRANZ BOAS, Ph.D. ....	<i>Professor</i>
HERBERT GARDINER LORD, A.M. ....	<i>Professor</i>
FREDERICK JAMES EUGENE WOODBRIDGE, A.M. ....	<i>Professor</i>
FELIX ADLER, Ph.D. ....	<i>Professor</i>
LIVINGSTON FARRAND, A.M., M.D. ....	<i>Adjunct Professor</i>
ADAM LEROY JONES, Ph.D. ....	<i>Tutor</i>
CHARLES AUGUSTUS STRONG, A.B. ....	<i>Lecturer</i>
JOHN ANGUS MACVANNEL, Ph.D. ....	<i>Lecturer</i>
WILLIAM HARPER DAVIS, A.B. ....	<i>Assistant</i>
WILMON HENRY SHELDON, Ph.D. ....	<i>Assistant</i>
EDWARD LEE THORNDIKE, Ph.D., <i>Adjunct Professor in Teachers College</i>	
NAOMI NORSWORTHY, B.S. ....	<i>Tutor in Teachers College</i>

NICHOLAS MURRAY BUTLER, Ph.D., LL.D. .... *President and Professor*

The courses primarily for students of the colleges are intended to offer the training in philosophy and psychology which is believed to be essential for a liberal education, to give instruction preliminary to certain of the professions, and to prepare students for advanced work.

Psychology A, given in four sections at Columbia College, in two sections at Barnard College, and in three sections at Teachers College, is required in the junior year unless taken by permission of the Dean in the sophomore year. It should be elected in the sophomore year by students wishing to follow other courses in philosophy or psychology.

Psychology 10 (given both at Columbia and Barnard Colleges) and 8 are primarily for juniors.

Philosophy 2 and 9 (given both at Columbia and Barnard Colleges) and Psychology 1 and 9 are for juniors and seniors.

Philosophy 1, 5, and 8, and Psychology 2, 3, and 16, are primarily for seniors. and are open to students of Columbia, Barnard, and Teachers College. Juniors may be admitted in special cases; graduate students, if they have not had training in philosophy and psychology, will need to enter these courses. They may count towards the higher degrees when special work is done in connection with them.

These courses count one point towards the degree of A.B. for each hour of work through the year, or one half-point for each hour of work through one half-year, except that two hours of laboratory work in psychology count as one point.

\* Absent on leave.

The graduate courses are intended to cover the whole field of philosophy and psychology and to give opportunity for research in any direction.

Philosophy 3, 4, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, and 18, and Psychology 5, 6, 7, 11, 14, and 17 are for graduate students in the first or second year of residence.

The seminars and research courses (including Psychology 4) are for graduate students who are able to do independent work and can only be taken with the consent of the instructor.

Psychology 1 and 8 (being open to juniors) and 7 (being given at the College of Physicians and Surgeons) are not open to Barnard students, but all the courses in philosophy and psychology except Psychology 7 are open to women. All the courses are open to auditors, who in accordance with the regulations must secure the written consent of the instructor.

Courses 4, 6, 7, and 17 are not given in 1902-03.

*For special information as to the scope of each course, the courses or their equivalents that must have preceded it or must accompany it, as to what credit toward the fulfilment of the requirements for major or minor subjects will be given on the completion of the course, consult the Announcement of the Division of Philosophy, Psychology, and Anthropology for 1903-04.*

### Courses in Philosophy

1—The history of philosophy—Lectures, essays, and discussions. This course serves as a general introduction to the study of philosophy, and is prerequisite to Courses 3, 4, 6, 11, 13, 14, and 15. 3 hours. Professor WOODBRIDGE, assisted by Dr. SHELDON

2—Ethics: general course—Lectures, essays, and discussions. 3 hours, second half-year. Professor LORD

3—The philosophy of Kant and his successors—Lectures, essays, and private reading. 2 hours. Professor WOODBRIDGE

[4—British philosophy from Locke to Herbert Spencer—Lectures, essays, and private reading. 2 hours. Professor WOODBRIDGE]

5—Practical ethics—Lectures, private reading, observation, essays, and discussions. 2 hours. Professor HYSLOP

[6—Epistemology—Lectures, discussions, and essays. 2 hours. Professor HYSLOP]

[7—Ethics: advanced course—Lectures, essays, and discussions. 3 hours. Professor HYSLOP]

8—Principles and problems of æsthetics—Lectures, essays, and discussions. 2 hours. Dr. JONES

9—Logic and scientific method. 3 hours, second half-year. Dr. JONES

10—Journal club—Reports and discussions on contemporary literature. 1 hour. Dr. JONES

11—Cosmology—Lectures and discussions. 2 hours. Dr. SHELDON

12—(Same as Education 102)—Practicum—Philosophy of education—Lectures, reports, and discussions. 2 hours. President BUTLER and Dr. MACVANNEL

13—Metaphysics—Lectures, discussions, and essays. 2 hours. Professor HYSLOP

14—Philosophical practicum: the philosophy of Herbert Spencer—Lectures, essays, readings, and discussions. 2 hours. Professor HYSLOP

15—The philosophy of Spinoza—A critical reading of Spinoza's works. 2 hours. Professor WOODBRIDGE

16—Practicum in æsthetics—Advanced study of the principal problems—Lectures, readings, essays, and discussions. 2 hours. Dr. JONES

[17—Comparative æsthetics—A comparison of æsthetic principles as exemplified in the several arts. 2 hours. Dr. JONES]

18—Political and social ethics. 2 hours, second half-year. Professor ADLER

Seminars: President BUTLER and Dr. MACVANNEL in research work in the field of philosophy and education; Professor HYSLOP in Aristotle; Professor WOODBRIDGE in early Greek philosophy; Dr. SHELDON in Hegel

*Philosophy of Religion (at the Union Theological Seminary)*

A—Philosophy of religion; the philosophical foundation. 2 hours, first half-year. Professor KNOX

B—Theism. 2 hours, second half-year. Professor KNOX

C—Survey of the ethnic faiths. 2 hours, first half-year. Professor KNOX

F—Introduction to the study of the philosophy of religion. 2 hours. Professor KNOX

*Ethics (at the Union Theological Seminary)*

A and B—Christian ethics. 2 hours. Professor THOMAS C. HALL

C—Special introduction to ethics. 2 hours, first half-year. Professor THOMAS C. HALL

D—Types of ethical systems. 2 hours, second half-year. Professor THOMAS C. HALL

E—Christian social thinking. 1 hour. Professor THOMAS C. HALL

H—Study of modern ethics. 2 hours. Professor THOMAS C. HALL

## Courses in Psychology

**A**—Elements of psychology—Discussions, practical exercises, and recitations. 3 hours, first half-year, given in 4 sections at Columbia College and in two sections at Barnard College. Professor LORD and Dr. JONES. Given at Teachers College in 3 sections. Professor THORNDIKE and Miss NORSWORTHY

**10**—Analytic psychology—Introductory course—Recitations and discussions. 3 hours, second half-year. Given at Columbia and Barnard Colleges. Professor LORD

**1**—Introduction to psychology. 2 hours, lectures and demonstrations. President BUTLER, Professors WOODBRIDGE, CATTELL, BOAS, STARR, HYSLOP, FARRAND, and THORNDIKE, Dr. JONES and Mr. STRONG

- A. Prolegomena to psychology. Two lectures. President BUTLER
- B. History of psychology. Six lectures. Professor WOODBRIDGE
- C. Physiological psychology. Seven lectures. Professor FARRAND
- D. Experimental psychology. Seven lectures. Professor CATTELL
- E. Genetic psychology. Seven lectures. Professor THORNDIKE
- F. Comparative psychology. Six lectures. Professor BOAS
- G. Psychological aesthetics. Three lectures. Dr. JONES
- H. Pathological psychology. Three lectures. Professor STARR
- I. General psychology. Eight lectures. Professor HYSLOP
- J. Philosophy of mind. Six lectures. Mr. STRONG

**2**—Experimental psychology, introductory course — Lectures, themes, and demonstrations. 2 hours. Professor CATTELL

**3**—Experimental psychology—Laboratory work in connection with Psychology 2. 2 or 4 hours, counting as a 1- or 2-hour course. Professor CATTELL, assisted by Mr. DAVIS

**4**—Problems in experimental psychology—Lectures, laboratory work, and reports. 2 hours. Professor CATTELL

**5**—Research work in experimental psychology. Professor CATTELL, assisted by Mr. DAVIS

**16**—(Same as Education 12)—Child study—Observation, experiments, private reading, and conferences. 2 hours. Professor THORNDIKE and Miss NORSWORTHY

**11**—(Same as Education 59)—Genetic psychology, advanced course. 2 hours. Professor THORNDIKE

**17**—(Same as Education 108)—The application of psychological and statistical methods to education. Professor THORNDIKE

**13**—(Same as Education 109)—Research work in genetic and comparative psychology. Professor THORNDIKE

**6**—Analytic psychology, advanced course—Lectures, discussions, and private reading. 2 hours. Mr. STRONG

[14—Philosophy of mind—Lectures, discussions, and private reading. 2 hours. Mr. STRONG

Not given in 1902-03]

15—Research work in analytic psychology and the philosophy of mind. Mr. STRONG

7—Diseases of the mind and nervous system—Lectures and demonstrations. 1 hour. Professor STARR

8—Physiological psychology, general course—Lectures, demonstrations, and laboratory work. 3 hours. Professor FARRAND

9—Abnormal and pathological psychology—Lectures and discussions. 1 hour. To be taken in connection with Course 2 or 8. Professor FARRAND

12—Research work in physiological and abnormal psychology. Professor FARRAND

### Equipment

LIBRARY FACILITIES—The library facilities of Columbia University and of the city of New York, for students of Philosophy and Psychology, are unusually good. The University Library, open daily (except Sunday) for fifteen hours, contains more than 300,000 bound volumes and an equal number of pamphlets, and is being added to at the rate of more than 20,000 volumes annually. Any book needed by an advanced student can usually be bought at once. The collection of books on the history of philosophy is very large, that on Kant and his philosophy being especially complete. Over 800 periodicals are regularly received at the University Library, and among them will be found every journal of importance, American or foreign, dealing with philosophy or psychology. Duplicates of the more important books and journals are placed in the Psychological Laboratory, where there is also a card index of psychological literature containing over 15,000 titles. Students of Psychology will also find much of value in the Library of the Academy of Medicine, 15 West 43d Street, which is open to students free of charge. The Astor and Lenox Libraries are also available for students, when introduced by one of the instructors on especially favorable terms.

THE PSYCHOLOGICAL LABORATORY—The laboratory is in Schermerhorn Hall, a building "devoted to the advancement of natural science," erected in 1897 at a cost of over \$400,000. It occupies the eastern half of the second floor and part of the floor immediately above, the rooms being as follows: A lecture-room, seating one hundred students, used also as a general laboratory; a seminar room with a department library, a workshop, a photographic and chemical room, an apparatus cabinet, an anthropometric laboratory, five rooms used as offices and laboratories by the officers of the department, and seven research laboratories. Two of these are dark-rooms, specially constructed to exclude sound as well as light, 18 feet high and well ventilated. The

laboratory has light from the north and south, is supplied with electric current of both high and low potential, and is in all respects equipped both for instruction and research. The collection of apparatus has been gradually secured at a cost of over \$7,500. It includes: (1) Outfit for making and repairing apparatus, electric motors, etc. A skilled instrument-maker is continually employed, adding greatly to the efficiency of the laboratory. (2) The outfit of an anthropometric laboratory with which freshmen in the college and others are annually tested. (3) The apparatus, preparations, charts, etc., needed for complete courses in experimental, physiological, and genetic psychology; and (4) the apparatus that has been used or is being used in special researches, a large part of which has been made especially for the laboratory. The outfit for the courses of instruction is now in large measure secured, and the annual appropriations can be used chiefly for apparatus needed in special researches.

### Physics

OGDEN N. ROOD, LL.D.*	<i>Professor</i>
WILLIAM HALLOCK, Ph.D.	<i>Professor</i>
HERSCHEL C. PARKER, Ph.B.	<i>Instructor</i>
CHARLES C. TROWBRIDGE, B.S.	<i>Tutor</i>
FRANK L. TUFTS, Ph.D.	<i>Tutor</i>
WILLIAM S. DAY, Ph.D.	<i>Tutor in Barnard College</i>
GEORGE BRAXTON PEGRAM, A.B.	<i>Tutor</i>
WILLIAM W. COMSTOCK, A.B.	<i>Assistant</i>
GILBERT TOLMAN, A.B.	<i>Assistant</i>
JOHN CABOT, Jr., E.M.	<i>Assistant</i>
LINVILLE L. HENDREN, A.M.	<i>Assistant</i>
CHARLES FORBES, M.D.	<i>Assistant</i>
CLAUDE RUSSELL FOUNTAIN, A.B.	<i>Assistant</i>
JULIA N. COLLES, A.M.	<i>Assistant in Barnard College</i>

### Courses

Courses 1-4, 7-13, and 31, are open to properly qualified students in Columbia College.

Courses 2, 3, and 4, and the advanced laboratory courses, may be counted toward the higher degrees.

Courses 1 and 3 are required of candidates for the degrees in the Schools of Mines, Chemistry, and Engineering, and Course 31 of first-year students in Medicine.

*For detailed information as to the scope of each course, the text-books used, the courses pre-requisite, and the like, consult the Announcement of the Faculties of Political Science, Philosophy, and Pure Science.*

1—General physics. Light and heat (first half-year). Sound and electricity (second half-year). Lectures and recitations, 3 hours. Professor ROOD and Dr. TUFTS

Given at Barnard by Dr. DAY and Miss COLLES

\* Died November 12, 1902.

2—Electricity (first half-year). Sound (second half-year). 2 hours lectures; 2 or 6 hours laboratory work. Text-books: Atkinson's Ganot, and Stewart and Gee's *Physics*. Professor Rood

Given at Barnard by Dr. DAY and Miss COLLES

43—Critical discussion of methods of measurement and computation according to the C. G. S. system. First half-year, electricity and magnetism; second half-year, sound, heat, and light. 2 hours a week. Professor HALLOCK

3a—Physical laboratory—A course of exact experimentation and measurement in the laboratories. 2 to 6 hours a week. Mr. PARKER

4—Light (first half-year). Lectures on the velocity, reflection, refraction, and dispersion of light. Achromatism, optical instruments, the eye, and Young's theory of color. Physical measurements in the laboratory.

Heat (second half-year). Lectures on the expansion of solids, liquids, and gases; on conduction, specific heat, tension of vapors, and radiant heat. Physical measurements in the laboratory. 3 hours lectures; 2 or 4 hours laboratory work. Professor Rood

Given at Barnard by Professor HALLOCK and Dr. DAY.

5—Modes of designing and constructing optical apparatus (first half-year). 1 hour. Professor HALLOCK

7—Electrical manipulation (first half-year). 1 hour. Theoretical comparison of electrical methods (second half-year). 2 hours. Mr. PARKER

38—Experimental methods of studying atmospheric electricity (second half-year). 1 hour. Dr. TUFTS

8—Undulatory theory of light (second half-year). 2 hours. Professor HALLOCK

Open to Seniors in Barnard.

41—Fundamental phenomena of theoretical physics. 1 hour a week. Dr. TUFTS

31—General elementary physics (shorter course for students in medicine). 3 hours lectures and 3 hours laboratory work, for a half-year. This course is delivered twice every year. Professor HALLOCK and Dr. TUFTS

Given at Barnard by Dr. DAY and Miss COLLES.

### Laboratory Courses

9—Electromotive force of standard and constant cells

41—Comparison of electrical standards of resistance

32—Absorption of sound by various materials

12—Colorimetry, and absorption spectra

13—Photometry



- 14—Calibration of Wheatstone bridges
- 33—Factors of capillarity
- 16—Determination of index of refraction by special methods
- 35—Study of the variations of the magnetic field
- 18—Viscosity of solids
- 34—Determination of permeability and hysteresis of iron
- 20—Advanced course in spectrometry
- 21—Ballistic galvanometer work, inductance
- 22—Calorimetry
- 23—Radiant heat
- 24—Interference of light
- 25—Polarized light
- 26—Acoustic determinations
- 36—Precise determinations with the potentiometer
- 28—Measurement of low resistance
- 29—Electrical insulation
- 30—The use of the microscope
- 40—Absolute measurements of current and electromotive force
- 37—Spectral photography

Professors ROOD and HALLOCK, Mr. PARKER, Dr. TUFTS, and Mr. PEGRAM

A laboratory course of five hours per week will be accepted as a minor for the degree of Master of Arts.

Original research, conducted under the direction of Professors ROOD and HALLOCK, is open to properly qualified persons, including candidates for the degree of Ph.D., in their last year, whose major subject is Physics.

The Journal Club of the Department meets weekly for the discussion of the current literature of Physics and of reports on special investigations.

### Equipment

The laboratories and lecture-rooms of the department of Physics occupy four floors of Fayerweather on the eastern side of the University grounds. The building is supplied with all ordinary conveniences, including electricity for power and light, compressed air, and steam. There is a vertical shaft 95 feet high, with gas, electric, and water outlets every ten feet. In the sub-basement a constant-temperature room is placed twelve feet below the surface of the ground. The meteorological instruments presented to the University by President Low are set up with the recording portions in the small library on the first floor, and are connected by an electric cable with the vanes, anemometer, and rain gauge, which, with allied pieces of apparatus, are

placed upon an observation platform located on the roof of the building. There are two lecture-rooms, a library and apparatus-room, and a small laboratory on the first floor, while the remaining three floors devoted to the department are occupied by laboratories of different kinds.

The general elementary laboratory includes in its equipment: three linear and three circular dividing engines of different designs; a Geneva Society comparator and dividing engine; a Grunow cathetometer, spherometers, optical levers, calipers, and micrometers of many kinds; eight balances with weights. Specific-gravity apparatus, hydrometers, aërometers, Becker and Jolly balances, standard mercurial barometers, aneroid and Mariott barometers, Kater's and Borda's pendulums, and apparatus for studying elasticity are provided; also monochords, Kundt's dust-figure apparatus, and sets of organ pipes and tuning-forks for the study of sound, thermometers and apparatus for their calibration, zero and boiling points, are supplied; also there is apparatus for determination of coefficients of expansion, for latent and specific heat, and for calorimetry.

The optical rooms are furnished with eight spectrometers of different designs, seven spectroscopes, small telescopes, opera-glasses, microscopes, sets of lenses, prisms, and gratings, goniometers, a sextant, optical benches, photometers, saccharimeters, total reflectometers, and apparatus for colorimetry, polarized light, and spectroscopy.

In the rooms devoted to electricity are eleven galvanometers of various patterns, high and low resistance, ballistic and dampened; electrometers, magnetometers, rheostats and bridges of all types; condensers, batteries, keys, arc and incandescent lamps, ammeters and volt meters, and four standard ohms.

The workshop is furnished with a lathe, planer, grinding head, vises, carpenters' and machinists' benches, and tools for work in metal, wood, and glass.

At Barnard College the department occupies the second floor of Fiske Hall, nine rooms, and is equipped similarly to that at Columbia.

Advanced students are taught and encouraged to repair, alter, and construct apparatus needed for their special work.

### Physiological Chemistry

RUSSELL H. CHITTENDEN, Ph.D.	.....	<i>Director and Lecturer</i>
WILLIAM J. GIES, M.S., Ph.D.	.....	<i>Adjunct Professor</i>
ALFRED N. RICHARDS, A.M., Ph.D.	.....	<i>Tutor</i>
PHILIP B. HAWK, M.S.	.....	<i>Assistant</i>

### Preliminary Statement

*Detailed reference to the scope of the courses offered in this department may be found in the Announcements of the College of Physicians and Surgeons and of the School of Pure Science.*

Course 1 is required, in the second year, of candidates for the degree of M.D. It is open (1) to first-year students of medicine who have been exempted from chemistry and physics, and who have the requisite knowledge of elementary physiology; (2) also, as an elective, to qualified seniors in Columbia College who have had sufficient chemistry, physics, physiology, and general biology.

Courses 1, 2, 3, and 4 are offered as partial majors or minors for the degree of A.M. or Ph.D. They are open to post-graduate students of medicine.

Candidates for the degree of A.M. or Ph.D. in this department are required to take Course 1 or its equivalent.

In addition to the courses announced below, this department coöperates with the department of Physiology in giving "Course 6—Elementary Physiology" (See page 170.)

None of the courses in this department is open to women.

### Courses

1—General physiological chemistry—Given each half-year. Lecture, 1 hour. Professor CHITTENDEN. Combined conference and recitation, 1 hour. Professor GIES. Laboratory exercises (3), 6 hours. Professor GIES, Dr. RICHARDS, and Mr. HAWK

2—Laboratory course in advanced physiological chemistry, including a study of clinical methods. 6 hours. Professor GIES and Dr. RICHARDS

3—Laboratory course in special physiological chemistry. 12 hours. Professor GIES

4—Physiological chemistry of plants, including a study of laboratory methods. 6 hours. Professor GIES. (See references to Botanical Garden, pp 56 and 77.)

### Research

The laboratories are open to advanced workers for research.

### Equipment

The department of Physiological Chemistry is located at the College of Physicians and Surgeons and possesses four well-equipped laboratories. One large room is arranged for the accommodation of 72 workers at one time. Three smaller rooms are specially fitted up for original investigation by advanced students. The department is well equipped with all needful apparatus for routine and research work in physiological chemistry.

The private library owned by Professor Gies is housed in the laboratory and is available to all the workers in the department.

### Physiology

JOHN GREEN CURTIS, M.D. . . . . *Professor*  
FREDERIC SCHILLER LEE, Ph.D. . . . *Adjunct Professor and Demonstrator*  
RICHARD HOOP CUNNINGHAM, M.D. . . . . *Instructor*  
HAVEN EMERSON, A.M., M.D. . . . . *Assistant Demonstrator*  
RUSSELL BURTON-OPITZ, S.M., M.D. . . . . *Assistant Demonstrator*

*A more detailed statement of the work and equipment of this department may be found in the Spring Announcements of the College of Physicians and Surgeons and of the School of Pure Science.*

### Preliminary Statement

Course 6 is open to juniors and seniors in Columbia College. No other course is open to undergraduates except in so far as Course 3 is required of seniors who are taking their first year in medicine.

A knowledge of general biology, such as is offered in the department of Zoölogy, Course 2, or of elementary physiology, such as Course 6 or its equivalent, or of the first year's work in medicine, is a pre-requisite to the undertaking of work in physiology by a candidate for the degree of A.M. or of Ph.D.

Candidates for the degree of A.M. may take Courses 1 and 2, or Courses 3 and 4, or Course 4 with a sufficient amount of prescribed reading, the particular combination of courses selected depending largely on the student's previous training.

Candidates for the degree of Ph.D. are expected to take during their first year Courses 1 and 2, and during their second year either (a) Course 4, with Course 3 or with a sufficient amount of prescribed reading, or (b) during their first half-year Course 4, with Course 3 or with a sufficient amount of prescribed reading, and during their second half-year Physiological Chemistry, Course 1.

Candidates for the degree of M.D. are required to take Course 3 during both their first and their second years.

None of the courses in this department is open to women.

### Courses

6—Elementary physiology. Given with the coöperation of the department of Physiological Chemistry. 1 hour lecture, and 2 hours laboratory work. 516 S. Professors LEE and GIES and Assistants.

1—General physiology. Lectures, 1 hour. Professor LEE

2—Laboratory course in general physiology. 5 hours. Professor LEE and Dr. BURTON-OPITZ

3—The physiology of man as related to that of other mammals and of lower vertebrates. This course treats in alternate years of (a) the physiology of nutrition and (b) the physiology of the muscular and nervous systems and the special senses. Certain introductory lectures are repeated annually. Lectures and demonstrations, 4 hours. Professors CURTIS and LEE and Dr. EMERSON

4—Laboratory course in special physiology. 3 hours. Professor CURTIS

5—Electro-physiology. Hours and work to be arranged with the instructor. Dr. CUNNINGHAM

### Research

The laboratory is open for research, under the direction of its officers, to advanced workers.

### Fellowships

For the Alumni Association Fellowships open to persons desiring to do special work in the department of Physiology, see page 41

For the University Fellowships, also open as above, see page 26

### Marine Laboratory

An investigator's room at the Marine Biological Laboratory at Wood's Hole, Mass., has been provided by the University for the use of the department of Physiology. This renders possible, during the summer, researches upon the physiology of the marine fauna.

### Equipment

The department of Physiology possesses:

I—At the College of Physicians and Surgeons:

- (1) A laboratory for research and the preparing of demonstrations.
- (2) A small laboratory for histological research with special reference to physiological problems.
- (3) Two rooms for optical or psychological work or for photography.
- (4) Two private laboratories for the professors of the department.
- (5) A laboratory for practical instruction.
- (6) A room for lectures and demonstrations to limited classes.
- (7) Easy access to a large lecture-room specially fitted for experimental teaching.
- (8) The Swift Physiological Cabinet, for the accommodation of a specially endowed and very full collection of apparatus of precision, mainly for research.

II—In Schermerhorn Hall:

- (1) The use of a laboratory equipped for the instruction of undergraduates.

The physiological journals are accessible to the students of the department, also the most important monographs and other books both modern and ancient.

A skilled mechanic is employed to devote his entire working time to the care and improvement of the plant, including the making, altering, and repairing of special apparatus. He also assists in the scientific manipulations.

### Political Economy and Finance

(See page 92)

### Political Philosophy

(See page 116)

### Portuguese and Rumanian

(See page 173)

### Practice of Medicine

FRANCIS DELAFIELD, M.D., LL.D.	<i>Emeritus Professor of the Practice of Medicine</i>
WALTER B. JAMES, M.D.	<i>Professor of the Practice of Medicine</i>
FRANCIS P. KINNICUTT, M.D.	<i>Professor of Clinical Medicine</i>
A. BRAYTON BALL, M.D.	<i>Professor of Clinical Medicine</i>
GEORGE ROE LOCKWOOD, M.D.	<i>Instructor in Medical Diagnosis</i>
WILLIAM K. DRAPER, M.D.	<i>Instructor in Medical Diagnosis</i>
VAN HORNE NORRIE, M.D.	<i>Instructor in Physical Diagnosis</i>
FRANK W. JACKSON, M.D.	<i>Instructor in Medical Diagnosis</i>
GEORGE MONTAGUE SWIFT, M.D.	<i>Instructor in Medicine</i>
ALBERT E. SUMNER, M.D.	<i>Chief of Clinic and Instructor in Physical Diagnosis</i>
ARTHUR M. SHRADY, M.D.	<i>Instructor in Physical Diagnosis</i>
HENRY WOOLFE BERG, M.D.	<i>Instructor in Infectious Diseases</i>
DAVID BOVAIRD, Jr., M.D.	<i>Tutor in Medicine</i>
NATHANIEL B. POTTER, M.D.	<i>Tutor in Medicine</i>
FRED. P. SOLLEY, M.D.	<i>Tutor in Medicine</i>
EDMUND L. DOW, M.D.	<i>Clinical Assistant and Tutor in Medicine</i>
EVAN EVANS, M.D.	<i>Tutor in Medicine</i>

#### Clinical Assistants

ARTHUR R. BRAUNLICH, M.D.	CHARLES S. FISCHER, M.D.
CHARLES M. WILLIAMS, M.D.	JAMES A. MILLER, M.D.
HENRY S. PATTERSON, M.D.	D. S. D. JESSUP, M.D.
T. STUART HART, M.D.	HUGHES DAYTON, M.D.

#### Courses

Course 8 is required in the second year, Courses 1, 2, 4, and 7 in the third year, Courses 1, 2, 3, 5, and 6 in the fourth year, of candidates for the degree of M.D.

Attendance at the hospital clinics (Course 9) is optional in the third and fourth years.

1—The practice of medicine. Didactic lectures. 1 hour a week throughout the academic year. Professor JAMES

2—Clinical lectures on general medicine at the Vanderbilt Clinic. 2 hours a week throughout the academic year. Professors DELAFIELD and JAMES

3—Bedside instruction. In the wards of Roosevelt and Presbyterian Hospitals in sections. 6 hours a week for four weeks. Professor JAMES

4—Physical diagnosis. Practical instruction in the Vanderbilt Clinic. 24 lessons for each student. Drs. NORRIE, SUMNER, and SHRADY

5—Hospital general diagnosis. 20 lessons, 2 hours each, for each student, in the wards of Bellevue Hospital. Drs. JACKSON, LOCKWOOD, and DRAPER

6—Practical instruction in Infectious Diseases in the wards of the Willard Parker and Riverside Hospitals. Dr. BERG

7—Recitations in general medicine. In sections, 2 hours a week throughout the academic year. Drs. BOVAIRD, EVANS, POTTER, and SOLLEY

8—Recitations in general medicine. In sections. 1 hour a week throughout the academic year. Dr. Dow

9—Hospital clinics in general medicine.—Roosevelt Hospital. Professors PEABODY and JAMES

M. at 4 P.M. throughout the academic year.

New York Hospital. Professors PEABODY and BALL. (See *Materia Medica and Therapeutics*.)

S. at 10.30 A.M. in November, December, January, February, March, and April.

Presbyterian Hospital. Professor KINNICUTT

Tu. at 4 P.M. and S. at 3 P.M.

### Provençal

(See page 176)

### Psychology

(See page 160)

### Public Law and Jurisprudence

(See page 123)

### Rhetoric and English Composition

(See page 104)

### Romance Languages and Literatures

ADOLPHE COHN, LL.B., A.M.....	<i>Professor</i>
HENRY ALFRED TODD, Ph.D.....	<i>Professor of Romance Philology</i>
CARLO LEONARDO SPERANZA, LL.B., A.M.....	<i>Professor of Italian</i>
BENJAMIN DURYEA WOODWARD, Ph.D.....	<i>Professor</i>
LOUIS AUGUSTE LOISEAUX, S.B.....	<i>Instructor</i>
DANIEL JORDAN, S.B., Pd.B.....	<i>Tutor</i>
HENRY BARGY, A.M.....	<i>Tutor</i>
WILLIAM A. NITZE, Ph.D.....	<i>Tutor</i>
JOHN DRISCOLL FITZ-GERALD, A.B.....	<i>Tutor</i>
RICHARD T. HOLBROOK, Ph.D.....	<i>Assistant in Teachers College</i>
CURTIS HIDDEN PAGE, Ph.D.....	<i>Lecturer</i>

The department of Romance Languages and Literatures has charge of all the courses of instruction and research throughout the University,

dealing with the various languages that trace their origin to the speech of ancient Rome. To the chief of these languages, the French, Italian, and Spanish, a foremost place is naturally assigned in the work of the department; but special attention is also given, in the more advanced courses, to the remaining members of the family, such as Old and Modern Provençal, Catalan, Portuguese, Rhaeto-Romance, and Rumanian, several of which are possessed of noteworthy literary and philological interest.

The department offers: (1) to students in Columbia College, practical instruction in French, Italian, and Spanish, courses in French, Italian, and Spanish literature, and introductory instruction in Romance philology; (2) to students in the School of Philosophy, advanced instruction in literature and in Romance philology, courses in the languages unprovided for in Columbia College, and also instruction of a pedagogical character; (3) to university students at large, and also to auditors, an opportunity to follow special courses; while advanced students in particular may receive the preparation necessary to meet the requirements in French made of every candidate for the degree of Ph.D. One of the aims of the department is to offer at least one course in each of the languages of the Romance group. Although no course in philology proper is offered to members of the lower classes in the College, it may be stated that from the outset care is taken to suggest the significance of the historical development of the language taught, so as to furnish a solid foundation for grammatical knowledge, and to awaken in some portion of the students a taste for philological research.

The courses at present offered are grouped under the following headings: French, Provençal, Italian, Spanish, Portuguese, Rumanian, Romance Philology.

French A is prescribed for freshmen not offering French for entrance. 1 is open to freshmen and sophomores having had A or an equivalent, 2 is open to students, not seniors, having had B or 1, or an equivalent, and is prerequisite to 3, 4, 12. D and E cannot be counted for a degree.

Italian 1 and Spanish 1 are open to all students, not seniors, having had the equivalent of the elementary entrance requirement in French and German, but they may not both be taken at the same time. Each is prerequisite to Courses 2 and 3 in the same language.

The following courses will not be given in 1902-03, but will be given in 1903-04 (except Italian 3 and Romance Philology 3, not given until 1904-05): French 5, 8, 15, 10, 16, Italian 2, Spanish 2, Romance Philology 2, 3.

Courses 9 and 10, under French, are given by Professor BRANDER MATTHEWS of the department of English.

*For fuller information as to the scope of each course in the department, the work pre-requisite to it, and the credit to be given toward the several degrees for it, see the Announcement of the Department of Romance Languages, which may be obtained without charge from the Secretary of the University.*



## Courses in French

(a) *Designed specially for Undergraduates*

**\*A**—Elementary course. 3 hours. Columbia College, Mr. JORDAN and Mr. FITZ-GERALD; Barnard College, Professor WOODWARD.  
† Dr. HOLBROOK

**B**—Elementary course—The course is intended for freshmen who, though not presenting French for admission, wish to take Course 2 in their sophomore year. It is the equivalent of Course A and 1 combined. It is accepted as a substitute for Course A. 5 hours. Dr. NITZE and Mr. FITZ-GERALD

**\*1**—Grammar, reading, composition. 3 hours. Columbia College, Mr. JORDAN and Mr. FITZ-GERALD; Barnard College, Professor WOODWARD and Dr. NITZE. † Dr. HOLBROOK

**\*2**—General introduction to the study of French literature; composition. 3 or 4 hours. Columbia College, Mr. JORDAN and Mr. LOISEAUX; Barnard College, Professor WOODWARD and Mr. LOISEAUX

Open as a three-hour course to students, not seniors, who have taken Course B or 1, or its equivalent, and to freshmen who have passed the advanced entrance examination in French; as a four-hour course to freshmen who have passed the intermediate entrance examination in French.

**\*3**—Historical French—Practice in reading, writing, and speaking French. 3 hours. Columbia College, Professor COHN and Mr. JORDAN; Barnard College, Mr. BARGY

**\*4**—History of French literature in the seventeenth century. 3 hours. Columbia College, Mr. BARGY; Barnard College, Professor WOODWARD and Mr. BARGY

**12**—History of the French language. 2 hours. Professor TODD

**D**—French conversation.—Elementary course. Mr. JORDAN

**E**—French conversation.—Advanced course. Mr. BARGY

The following courses, with the exception of Course C, are open only to students who have taken at least Course 4, or who can offer a satisfactory equivalent for the work therein described.

(b) *Designed for Seniors and Graduates*

**[5**—History of French literature in the eighteenth century, especially Voltaire. 3 hours. Professor COHN]

**6**—History of French literature in the eighteenth century, especially Montesquieu, Rousseau, and the Encyclopedists. 3 hours. Professor COHN

**†5a**—History of French literature in the eighteenth century. 3 hours. Mr. BARGY

\* Starred courses are given both in Columbia College and in Barnard College.

† In Teachers College.

‡ Given only in Barnard College.

\*7—History of the French literary movement in the first half of the nineteenth century. 2 hours. Columbia College, Dr. PAGE; Barnard College, Mr. BARGY

\*[8—History of the literary movement in France in the second half of the nineteenth century. 2 hours. Columbia College, Dr. PAGE; Barnard College Mr. BARGY]

11—History of literary criticism in France, especially Sainte-Beuve and Brunetière. 2 hours. Mr. BARGY

[15—French literature in the sixteenth century, with special attention to Montaigne. 2 hours. Mr. BARGY]

13—Old French. Reading of selected extracts. 2 hours. First half-year only. Dr. NITZE

14—Old French. Reading of complete texts. 2 hours. Second half-year only. Dr. NITZE

(c) *Designed specially for Graduate Students*

C—Elementary course for university students. 3 hours, first half-year. 2 hours, second half-year. Dr. NITZE

9—The French dramatists of the nineteenth century. 2 hours. First half-year. Professor BRANDER MATTHEWS

Identical with English 42.

[10—Molière and modern comedy. 2 hours. Professor BRANDER MATTHEWS]

[16—Critical bibliography of French literature from the sixteenth to the nineteenth century. 2 hours. Professor COHN]

17—Methods of teaching French. 2 hours. Professor COHN

Seminar—Special topics in Romance literature. Bossuet. 2 hours. Professor COHN

N.B.—For other advanced courses in French language and literature, see under Romance Philology.

**Course in Provençal**

1—Old Provençal. 1 hour. Professor TODD

**Courses in Italian**

(a) *Designed specially for Undergraduates.*

\*1—Elementary course—Grammar, reading, composition. 3 hours. Professor SPERANZA

(b) *Designed for Undergraduates and Graduates.*

\*[2—Italian literature in the sixteenth century. Composition. 3 hours. Professor SPERANZA]

\* Starred courses are given both in Columbia College and in Barnard College.

\*[3—Italian literature in the fourteenth and fifteenth centuries, exclusive of the *Divina Commedia*. Composition. 3 hours. Professor SPERANZA]

\*6—Modern Italian literature—Composition. 3 hours. Professor SPERANZA

4—Critical study of Dante's *Divina Commedia*. 2 hours. Professor SPERANZA

(c) *Designed specially for Graduate Students.*

5—History of Italian literature—Lectures and private reading. 1 hour. Professor SPERANZA

N. B.—For other advanced courses in Italian language and philology, see under Romance Philology.

### Courses in Spanish

(a) *Designed specially for Undergraduates.*

1—Elementary course—Grammar, reading, composition. 3 hours. Mr. LOISEAUX

(b) *Designed for Undergraduates and Graduates.*

[2—Advanced course—Grammar, reading, composition. *Don Quixote* and the age of Cervantes. 3 hours. Mr. LOISEAUX]

3—Advanced course—Grammar, reading, composition. The Spanish classical drama. 3 hours. Mr. LOISEAUX and Mr. FITZ-GERALD

‡ 2a—Advanced course—Grammar, reading, composition. 3 hours. Mr. FITZ-GERALD

(c) *Designed specially for Graduate Students.*

4—The origins of Spanish poetry. *El Poema del Cid*. 1 hour. Professor TODD

5—History of Spanish literature—Lectures and private reading. 1 hour. Professor COHN

N. B.—For other advanced courses in Spanish language and philology see under Romance Philology.

### Optional Course

A—Spanish conversation. 1 hour. Mr. LOISEAUX

The following two courses are open only to graduate students who have a knowledge of French and of at least one other Romance language as well as a reading knowledge of German:

### Portuguese

1—Books: Lencestre, *La Langue portugaise*; Camoens, *Os Lusíadas*. 2 hours. Professor TODD

\* Starred courses are given both in Columbia College and in Barnard College.

‡ Given only in Barnard College.

### Rumanian

1—Books: Candréa, *Grammaire roumaine*; Cionca, *Praktische Grammatik der Rumänischen Sprache*; Tocilescu, *Manual de Istoria Română*.

2 hours. Professor COHN.

### Courses in Romance Philology

(a) *Designed for Seniors and Graduates.*

1—Introduction to Romance philology. 2 hours. Professor TODD

(b) *Designed specially for Graduate Students.*

Courses 2, 3, and 4 are given in successive years.

[2—The works of Chrétien de Troyes. 1 hour. Professor TODD]

[3—Old French dialects. 1 hour. Professor TODD]

4—The formative elements of Romance speech. 1 hour. Professor TODD

5—General phonetics, with special reference to the Romance languages. 1 hour. Dr. NITZE

Seminar—Special topics in Romance philology. 2 hours. Professor TODD

N. B.—Weekly lectures in French, Italian, and Spanish, open to all members of the University, are given by the members of the department and by distinguished European lecturers.

### The Romance Club

The Romance Club consists of all the instructors and advanced students in the department. At its meetings, which take place at stated times,—usually once in two weeks, in Room 300, West Hall,—an account is given of the most important articles on the Romance Languages and Literatures in the recent French, English, German, Italian, and Spanish periodicals; new books are discussed, letters from absent instructors and former students in the department are read, etc. The meetings are partly of a social character, and are intended to bring instructors and students into closer personal relations.

### Equipment

The Library of Columbia University is well supplied with French, Spanish, and Italian works, as well as with works upon Romance philology. Its list of periodicals of interest for students in the department is especially rich. The Library has also complete sets of the most important series and collections, such as the *Altfranzösische Bibliothek*, *Romanische Bibliothek*, publications of the Modern Language Association, publications of the *Société des anciens Textes français*, *Histoire littéraire de la France*, *Ausgaben und Abhandlungen*

aus dem Gebiete der romanischen Philologie, Jahrbuch für romanische und englische Sprachen, etc.

### French Societies

Two societies have been organized for the purpose of fostering the use of the French language among the members of the University, viz., the *Société Française de l'Université Columbia*, which admits only men, and the *Société Française de Barnard College*, which admits only women. Joint meetings are held several times in the year by the two societies. They also give performances of French plays. The following plays have been presented in recent years: Scribe and Legouvé, *Bataille de Dames*; Jules Moinaux, *Les deux Sourds*; Meilhac and Halévy, *L'Eté de la Saint-Martin*.

### Surgery

WILLIAM T. BULL, M.D.....	Professor
ROBERT F. WEIR, M.D.....	Professor
CHARLES McBURNEY, M.D.....	Professor of Clinical Surgery
ANDREW J. MCCOSH, M.D.....	Clinical Lecturer
FRANK HARTLEY, M.D....	Professor of Clinical Surgery and Instructor in Operative Surgery
FRANCIS H. MARKOE, M.D.....	Professor of Clinical Surgery
CHARLES T. POORE, M.D.....	Clinical Lecturer
ROBERT ABBE, M.D.....	Clinical Lecturer
WILLIAM B. COLEY, M.D.....	Clinical Lecturer
ELLSWORTH ELIOT, Jr., M.D.....	Clinical Lecturer and Demonstrator
BERN B. GALLAUDET, M.D.....	Instructor
LUCIUS W. HOTCHKISS, M.D.....	Instructor
CHARLES N. DOWD, M.D.....	Instructor
JOSEPH A. BLAKE, M.D.....	Instructor
GEORGE E. BREWER, M.D.....	Instructor
EDWARD M. FOOTE, M.D.....	Chief of Clinic, Instructor
WALTON MARTIN, M.D.....	Instructor
CHARLES H. PECK, M.D....	Assistant Instructor in Operative Surgery
WARREN S. BICKHAM, M.D..	Assistant Instructor in Operative Surgery
ALFRED S. TAYLOR, M.D....	Assistant Instructor in Operative Surgery
A. EMIL SCHMITT, M.D.....	Assistant in Operative Surgery

### Clinical Assistants

D. S. D. JESSUP, M.D.	WILLIAM P. HERRICK, M.D.
F. R. COOK, M.D.	H. H. PELTON, M.D.
J. C. AYER, M.D.	ROWLAND COX, Jr., M.D.
H. E. MEEKER, M.D.	ARTHUR H. GARDNER, M.D.
A. S. TAYLOR, M.D.	JAMES H. KENYON, M.D.

### Courses

Courses 1, 2, 8, and 9 are required, in both the third and fourth years, of candidates for the degree of M.D.; Courses 3 and 7 in the third year only, and Courses 5 and 6 in the fourth year.

From Courses 9 attendance at the hospital clinics of Professors BULL and WEIR is required; at other clinics attendance is optional.

1—Surgical pathology, general and regional surgery—Didactic lectures. 1 hour. Professors BULL and WEIR

2—Clinics in general surgery at the Vanderbilt Clinic. 2 hours, M. and Th. at 12. Professors BULL and WEIR

3—Minor surgery and bandaging—Practical instruction at the Vanderbilt Clinic, and the out-patient department, Roosevelt Hospital. 24 lessons for each student. Drs. FOOTE and MARTIN

4—Practical instruction in minor operative surgery at the Vanderbilt Clinic, and the out-patient department, Roosevelt Hospital. 3 lessons per week to each student for one month. Drs. FOOTE and MARTIN

5—Operative surgery upon the cadaver—Practical instruction to classes of 20 members each. Each student performs for himself upon the cadaver the principal operations, including the ligation of arteries, amputations, resections, and the removal of parts. Special attention is paid to operations upon the abdominal viscera. 7 to 12 lessons for each student. Professor HARTLEY, Drs. PECK, BICKHAM, TAYLOR, and SCHMITT

6—Practical instruction in surgery to classes of 20 members each in the wards of Bellevue Hospital and the Syms Operating Theatre, Roosevelt Hospital. 16 lessons. Drs. GALLAUDET, HOTCHKISS, BREWER, and BLAKE

7—Practical instruction in the surgery of children at St. Mary's Free Hospital for Children, to classes of 20 members once a week for two months for each student. Dr. DOWD

8—Recitations in general and regional surgery. Three recitations per week in the third, and two per week in the fourth year. Dr. ELIOT

#### 9—HOSPITAL CLINICS:

Roosevelt Hospital—Tu. at 11.45 A.M. from Oct. to Feb., Professor BULL; W. at 11.45 A.M. from Feb. to May, Professor BULL; S. at 3.15 P.M., Professor WEIR.

New York Hospital—S. at 11.15 A.M. from Oct. to Feb., Professor MARKOE; and 11.15 A.M., from Feb. to May, Professor HARTLEY

St. Luke's Hospital—Th. or F. at 2.30 P.M. Professor MARKOE and DR. ABBE

Presbyterian Hospital—Tu. at 3.30 P.M. throughout the academic year Dr. McCOSH. W. and F. at 2.30 P.M. Dr. ELIOT

Hospital for the Ruptured and Crippled—Tu. and F., 8.30-9.30 A.M. Professors GIBNEY and BULL and Dr. COLEY Tu., Th., and S. 1-3 P.M. Dr. WHITMAN

St. Mary's Free Hospital for Children—Th., 10.30-11.30 A.M. Dr. POORE. F. at 2.30 P.M. Dr. DOWD

## Zoölogy

EDMUND B. WILSON, Ph.D., LL.D.....	<i>Professor</i>
HENRY F. OSBORN, Sc.D., LL.D.....	<i>Da Costa Professor</i>
BASHFORD DEAN, Ph.D.....	<i>Adjunct Professor</i>
GARY N. CALKINS, Ph.D.....	<i>Instructor</i>
OLIVER S. STRONG, Ph.D.....	<i>Tutor</i>
JAMES H. MCGREGOR, Ph.D.....	<i>Tutor</i>
(Barnard College)	
HENRY E. CRAMPTON, Ph.D.....	<i>Adjunct Professor</i>
WILLIAM E. KELLICOTT, B.A. ....	<i>Tutor</i>

Detailed information regarding the purpose and scope of the courses and the equipment of the laboratories is given in the circular of information issued by the biological departments, for which application should be made to the Secretary of the University.

Course 2 is open to juniors and seniors in Columbia College, counting as four (shorter course) or six (longer course) points towards the degree of A.B.

Courses 3, 4, 13, 16, and 17 are open both to seniors in Columbia College and to graduates, and count towards the degree of A.B. as follows. Course 3, six points; Course 4 or 13 (alternates) 3 points; Courses 16 and 17, 2 points each.

Courses 3 to 21 are open to graduates, and may all count towards the higher degrees with the exception of Courses 16 and 17. Course 3, however, may not be counted as part of the major work towards the Ph.D. degree, and may not be counted as graduate work if previously taken as an undergraduate course.

The following are the usual general requirements (given as a guide to students), subject to modification in special cases. A major course for the M.A. degree requires, in addition to the dissertation, the equivalent of two one-day courses for one year; for example, Course 5 (a two-day course), Courses 4 and 8 (one-day courses), or any one of Courses 4, 8, 13, 18 (one-day courses), with any two of Courses 6, 7, 9, 10, 19, 21 (one-day half-year courses). A minor is approximately one half the major.

A Ph.D. major requires, in addition to the dissertation, a minimum of two one-day courses for two years. A minor is in general equivalent to an M. A. major; but in the case of students who have not taken Course 3 as undergraduates, this course may constitute one half the requirement, the remaining half comprising any one of the full-year courses 4, 8, 13, 18, or any two of the half-year courses 6, 7, 9, 10, 19, 21.

Courses 2 and 3 are given separately at Barnard College by Professor CRAMPTON and Mr. KELLICOTT; all other courses are open to women, excepting 16 and 17.

### Undergraduate Courses

2—Elementary biology (zoölogy). The foundation of all the higher courses. Introductory to morphology and physiology, and to the general principles of biology. A year's course, divided into a shorter (2 lectures, 4 hours laboratory) and a longer (3 lectures, 6 hours laboratory) course, the latter including histology and embryology. Professors WILSON and DEAN, Drs. CALKINS and MCGREGOR

### Intermediate Courses

Pre-requisite: Course 2 (longer) or an equivalent.

3—General zoölogy. General zoölogy, including embryology, of vertebrates and invertebrates; facts and principles of general morphology, classification, development, distribution, evolution, and ecology. An optional course in mammalian dissection may be taken by prospective medical students as part of their work. 3 lectures, 6 hours

laboratory work, throughout the year. Professor DEAN, Drs. CALKINS and MCGREGOR

4—Comparative neurology. An introduction to the structure of the brain and nervous system of higher and lower animals with especial reference to the vertebrates. Special training in neurological technique. 1 lecture and at least 4 hours laboratory work throughout the year. Dr. STRONG

13—The human brain and spinal cord. A study of the macroscopic and microscopic structure of the brain, with supplementary examination of the nervous systems of lower forms. Neurological technique, 1 lecture and at least 4 hours laboratory work throughout the year. Dr. STRONG

16—Practical histology. Comparative study of tissues and organs with especial reference to histological technique. Supplementary to Course 3, as additional preparation for courses in medicine or biology. 3 hours a week throughout the year. Dr. STRONG

17—Practical embryology. Comparative study of development, especially of vertebrates, with particular reference to embryological technique. Supplementary to Course 3 as additional preparation for courses in medicine and biology. 3 hours a week throughout the year. Under direction of Professors WILSON and DEAN

### University Courses

Pre-requisites: Courses 2 and 3 or an equivalent.

5—Comparative zoölogy. This course directly continues the work of Courses 2 and 3. Critical examination of the morphology and development of vertebrates and invertebrates, with especial reference to problems of classification and phylogeny. 10 hours (2 days) a week throughout the year. Professors WILSON and OSBORN

6—General embryology. Critical study of the more general problems of development, with especial reference to cellular and experimental embryology, 1 lecture a week, with reading, conferences, and specially arranged laboratory work, through the second half-year. Professor WILSON

7—Cellular biology. Structure and functions of the cell. Cytological technique. 1 day a week through the second half-year. Professor WILSON

8—Mammals, living and fossil. A study of the structure, evolution, and classification of the Mammalia. 6 hours (1 day) a week throughout the year. Professor OSBORN

The latter part of this course is given in the American Museum of Natural History.

9—Fishes, living and fossil. Morphology and phylogenetic relations of the sub-classes and orders of fishes. 1 lecture a week with reading and demonstrations during half a year. Professor DEAN



10—The Protozoa. Classification, morphology, and physiology of unicellular organisms in relation to modern theories of biology. 1 lecture a week with demonstrations during second half-year. Dr. CALKINS

11—Advanced biology. Individual study of special biological problems. Original investigation. The time varies in different cases.

15—Sanitary biology. A general study of the Protozoa and other microscopic forms in their relations to sanitary science. Biological examination of drinking waters. Methods and results. Selected readings. Lecture and laboratory work. 3 hours, during the first half-year. Dr. CALKINS

Designed for students in Civil Engineering, Sanitary Science, and Chemistry.

18—Comparative embryology. General facts and principles of animal development, with especial reference to comparative organogeny. 1 day a week throughout the year. Professors DEAN and WILSON

19—The Protochordates—Morphology and embryology of the protochordate groups and allied forms with special reference to the problems of vertebrate descent. Lectures and laboratory work. 1 day a week during the first half-year. Dr. MCGREGOR

20—The statistical study of variation (given in coöperation with the department of Anthropology)—Lectures, essays, discussions, and laboratory work, on the characteristic features of variability and methods of treatment by modern statistical research. Two lectures (Professor BOAS) and 2 hours laboratory work (Professor CRAMPTON). Elementary course (Anthropology 2) in the first term, and advanced course (Anthropology 8) in the second term.

21—Experimental and Physiological Morphology—Developmental mechanics, regeneration, and related topics. One lecture a week, with readings and conferences, during the first term. Professor CRAMPTON

JOURNAL CLUB—Reports and discussions of recent literature by members of the staff, graduate students, and others. 1 hour a week throughout the year. Under direction of Professor WILSON

SEMINAR—Critical discussion of selected topics by members of the staff and graduate students. Subject and time are specially arranged.

UNIVERSITY BIOLOGICAL LECTURES—A course of lectures on general topics, given, as a rule, each year, by members of the staff and eminent specialists from other institutions. These lectures form the basis of the Columbia Biological Series, edited by Professors OSBORN and WILSON

### Laboratories, Libraries, and Equipment

The lecture rooms, laboratories, and zoölogical library are on the upper floor of Schermerhorn Hall, and comprise a large general under-

graduate laboratory, two graduate laboratories, a laboratory for neurology, eight private research-rooms, and rooms for aquaria, preparation, and other special purposes. The laboratory is well equipped with optical instruments and other apparatus, including a large Zeiss projection-lantern, and a carefully selected collection of teaching-preparations and type-forms, to which additions are constantly being made. The departmental library, largely the gift of Charles H. Senff, Esq., embraces full sets of the standard biological works, and a rapidly increasing collection of memoirs and special monographs. Important adjuncts to the work are given by the facilities offered by the American Museum of Natural History, by the marine biological laboratories at Wood's Hole, Mass., Cold Spring Harbor, L. I., and Bayshore, L. I., and by biological expeditions that are from time to time sent out by the department. Through William E. Dodge, Esq., the University subscribes to one half of the University Table at the Naples Zoölogical Station. An investigator's table is also held at the Wood's Hole Laboratory, and the John D. Jones scholarship is available at the Cold Spring Harbor laboratory.

**DYCKMAN FUND**—The interest of a fund of \$10,000, established by the late Isaac M. Dyckman, Esq., is available annually for the encouragement of biological research, and may be used for special grants to advanced students, investigators, or lecturers, or for purchases of books and apparatus.

# ENTRANCE EXAMINATIONS

## GENERAL STATEMENT

There are no examinations for admission to the Schools of Law, Political Science, Philosophy, and Pure Science, or for admission to the graduate courses under the Faculties of Applied Science and Teachers College. For the requirements for admission to these departments, and to the School of Medicine, see the separate announcements of the Schools and Faculties concerned.

Examinations for admission to Columbia College, Barnard College, Teachers College (Collegiate Course), and the Schools of Applied Science are held twice each year, beginning on the Monday following the second Wednesday in June and on the last Monday in September. In 1903 they will begin on June 15th and September 28th, respectively.

In June, 1903, the entrance examinations of Columbia University will be those of the College Entrance Examination Board of which Columbia University is a member.

Candidates are admitted to the several colleges and schools of the University on the numerical ratings of the College Entrance Examination Board, which are accepted without change. A uniform passing mark is, however, determined by the action of the respective Committees on Admission.

In September, 1903, the entrance examinations of Columbia University will be conducted by the Columbia University Committee on Entrance Examinations and will be held only at the University. The College Entrance Examination Board at present holds no examinations in September.

## APPLICATION FOR EXAMINATION

Every candidate for examination is required to file an application for examination.

For the examinations in June, 1903, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Applications for examination in New England, in the Middle States, or in Maryland, must be filed on or before June 8. Applications for examination elsewhere in the United States or in Canada must be filed on or before June 1. Applications for examination in Europe must be

For the revised regulations of the College Entrance Examination Board for 1903 see Document 100, sent by mail to the Secretary of the Board.

filed on or before May 18. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board and should be accompanied by return postage.

For the examinations in September, 1903, candidates for admission to Columbia College or the Schools of Applied Science should send their applications by mail to the Registrar of Columbia University; candidates for admission to Barnard College should send their applications to the Registrar of Barnard College; and for Teachers College, to the Registrar of Teachers College. Applications must be filed on or before September 21. Requests for blank forms of application should be addressed to the Secretary of Columbia University.

#### EXAMINATION FEE

Every candidate for examination is required in each year in which he takes examinations to pay an examination fee of \$5.00.

Every application for examination in June must be accompanied by this fee in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*.\*

\* Every application for examination in September must be accompanied either by the fee in the form of a postal order, express order, or draft on New York, to the order of *Columbia University* or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations of the same year.

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which he attends as evidence that he is entitled to be admitted to the same.

#### DIVISION OF EXAMINATION

A candidate may take examinations in June (but not in September) of the year preceding that in which he proposes to enter the University. Such examinations are known as preliminary examinations. At his preliminary examinations a candidate may, with the approval of his principal instructor, offer any subject or numbered part of a subject (see Definitions of Requirements, page 188).

In the year in which he purposes to enter the University, a candidate may divide his examinations between June and September in whatever manner he may wish, and he may offer again in September any subject in which he may have failed at the June examinations.

The results of an entrance examination are allowed to stand to the credit of a candidate for eighteen months, but not longer.

\* An examination fee paid to the College Entrance Examination Board for admission to the June examinations does not cover the matriculation fee of Columbia University.

## PLACES OF EXAMINATION

In June, 1903, entrance examinations will be held at a large number of widely distributed points. A complete list of the places of examination may be obtained from the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

In September, 1903, examinations for admission to Columbia University will be held only at the University.

## EXAMINATION SUBJECTS

Columbia University recognizes the following examination subjects, which may be offered for admission to one or more of the colleges and schools included in the University, each subject counting for a specific number of points as indicated below:

English.....	3	Advanced History*.....	1
Elementary History.....	1	“ Mathematics.....	1
“ Mathematics.....	3	“ Latin*.....	1
“ Latin.....	4	“ Greek*.....	1
“ Greek.....	3	“ Physics*.....	1
“ French.....	2	Botany.....	1
“ German.....	2	Chemistry.....	1
“ Spanish.....	2	Drawing.....	1
“ Physics.....	1	Physiography.....	1
Intermediate French.....	1	Zoölogy*.....	1
“ German.....	1		

The combinations of subjects which may be offered for admission to the several colleges and schools are indicated in this catalogue in the part devoted to each college or school, under the heading Admission.

## TIME-SCHEME OF EXAMINATIONS

In both June and September, 1903, entrance examinations will be conducted at Columbia University. Examinations for men will be held in the Columbia University Gymnasium; and for women, in the Barnard College Theatre.

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

A schedule of the hours at which examinations in the various subjects will be held may be obtained by addressing the Secretary of the University.

\* Candidates will be examined in this subject only in September.

## DEFINITIONS OF REQUIREMENTS\*

(Specimen question papers may be obtained from the Registrar upon application.)

## BOTANY† (counting one point)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferae, Solanaceæ, Labiatae, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia*, a mildew (*Microspheera*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphærella*).

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, the note-book of the candidate should be submitted *at the time of the examination*. The note-book must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work. Candidates desiring the return of their note-books should apply for them after the examination to the Secretary of the University. Note-books for the return of which no application is made will be preserved for one year only.

\* The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

† For a more detailed statement of the requirement in Botany the reader is referred to the definitions of the requirements published by the College Entrance Examination Board. Applications for the pamphlet containing these definitions should be addressed to the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

## CHEMISTRY (counting one point)

The candidate's preparation in Chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises.

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

**OUTLINE.**—The chief physical and chemical characteristics, the preparation, and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

A list of suitable laboratory experiments is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

**LABORATORY NOTE-BOOK.**—Every candidate must present *at the time of his examination in chemistry* a note-book in which he has recorded the steps and the results of his laboratory experiments. A candidate

who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
in the chemical laboratory of.....School  
during the year 19....

Instructor in Chemistry.

#### DRAWING (counting one point)

A candidate must be able to draw and sketch correctly and with proper shading a simple geometrical figure or a group of geometrical solids, or to sketch a simple piece of machinery or a house with correct construction and accuracy of proportion, with a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. A candidate must also be able to reproduce from a flat copy with enlargement or reduction in size. For candidates for the School of Architecture, the object to be copied will usually be an ornament—an anthemion or acanthus leaf—or a design of iron scrollwork; for the other Schools of Applied Science, the subject will be chosen from machinery details or geometrical constructions; for Teachers College, from geometrical solids, still life, or simple plant forms.

A candidate who has had a fair amount of training in drawing and wishes to be excused from a formal examination in this subject may at the time of the entrance examinations submit drawings, especially systematic sets of drawings, executed at school. They should be accompanied by a certificate from his teacher to the effect that they are the candidate's own work. If they indicate a satisfactory proficiency, they will be accepted in lieu of the examination. Drawings thus submitted should be sent to the *Secretary of Columbia University* at least two weeks before the day on which the examinations begin.

#### ENGLISH (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

1. Reading and composition.—The candidate will be required to present evidence of a general knowledge of the subject-matter of the prescribed books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—



perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book,\* properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The candidate is expected to read intelligently *all* the books prescribed. He should read them as he reads other books; he is not expected to know them minutely, but to have freshly in mind their most important parts. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates offering this part of the requirement as a preliminary subject should be prepared on the books prescribed for the year in which they propose to enter the University.

The books prescribed for this part of the examination are as follows:

In 1903, 1904, and 1905: Shakspeare's Merchant of Venice and Julius Cæsar; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1906, 1907, and 1908: Shakspeare's The Merchant of Venice and Macbeth; The Sir Roger de Coverley Papers in the Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's The Vision of Sir Launfal; George Eliot's Silas Marner.

2. Study and composition.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, the literary form, and the logical structure. The candidate may be required, in addition, to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to

\* Such exercise books should be prepared in accordance with a list of directions, to be obtained by addressing the Secretary of the University. *Exercise books should be sent to the Secretary of Columbia University not later than two weeks before the first day of the examinations.* Within ten days the teacher will be informed whether the candidate is, or is not, excused from examination on the books prescribed for reading. Exercise books will *not* be returned to the writers.

memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1903, 1904, and 1905: Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907, and 1908: Shakspeare's *Julius Cæsar*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison and Life of Johnson*.

#### FRENCH

##### Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*,

Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouvé and Labiche's *La cigale chez les fourmis*, Malbot's *Sans famille*, Mairét's *La tâche du petit Pierre*, Mérimée's *Colomba*, extracts from Michelet, Sarcey's *Le siège de Paris*, Verne's stories.

#### Intermediate (counting one point)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

THE WORK TO BE DONE.—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Corneille's *Le Cid* and *Horace*, Coppée's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *Pêcheur d'Islande*, Mignet's historical writings, Molière's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seiglière*, Scribe's plays, Thierry's *Récits des temps mérovingiens*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

#### Advanced \*

THE AIM OF THE INSTRUCTION.—At the end of the advanced course the pupil should be able to read at sight, with the help of a vocabulary of special technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose; and to carry on a simple conversation in French.

THE WORK TO BE DONE.—This should comprise the reading of from 600 to 1000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

\* Advanced French must be offered by candidates who wish to enter the course French 1 (see courses announced by the Department of Romance Languages and Literatures). It may not be counted among the points required for admission.

Suitable reading matter will be: Beaumarchais's *Barbier de Séville*; Corneille's dramas; the elder Dumas's prose writings; the younger Dumas's *La question d'argent*; Hugo's *Ruy Blas*, lyrics, and prose writings; La Fontaine's fables; Lamartine's *Graziella*; Marivaux's plays; Molière's plays; Musset's plays and poems; Pellisser's *Mouvement littéraire au XIX<sup>e</sup> siècle*; Renan's *Souvenirs d'enfance et de jeunesse*; Rousseau's writings; Sainte-Beuve's essays; Taine's *Origines de la France contemporaine*; Voltaire's writings; selections from Zola, Maupassant, and Balzac.

#### GERMAN

##### Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien*, and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Ders zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelmi's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

#### Intermediate (counting one point)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

THE WORK TO BE DONE.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and

*Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmanns-kind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; Wildenbruch's *Das edle Blut*.

### Advanced \*

THE AIM OF THE INSTRUCTION.—At the end of the advanced course the student should be able to read, after brief inspection, any German literature of the last one hundred and fifty years that is free from any unusual textual difficulties, to put into German a passage of simple English prose, to answer in German questions relating to the lives and works of great writers studied, and to write in German a short, independent theme upon some assigned topic.

THE WORK TO BE DONE.—The work of the advanced course (last year) should comprise the reading of about 500 pages of good literature in prose and poetry, reference readings upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, and independent translation of English into German.

### GREEK

#### Elementary (counting three points)

##### 1. Greek Grammar.

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose; also the constructions, poetical forms, and prosody of Homer's *Iliad*.

##### 2. Greek Composition I.

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis*.

##### 3. Xenophon.

The first four books of the *Anabasis*.

##### 4. Homer.

The first three books of the *Iliad* (omitting II, 494–end).

##### 5. Greek Composition II.

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

\* Advanced German should be offered, if possible, by candidates desiring to take advanced courses in German. It may not be counted among the points required for admission.

## 6. Sight Translation.

Translation into English at sight, based on prose of no greater difficulty than Xenophon's *Anabasis*.

**Advanced** (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek **B** (see courses announced by the Department of Greek). In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's *Greek Prose Composition* will show the grade of preparation demanded.

**HISTORY****Elementary** (counting one point)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

**First Group:**

1. Ancient history, including a brief introductory study of the Oriental peoples and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.
2. Mediæval and modern history, with due reference to the growth of the state-system.

**Second Group:**

3. English history, with due reference to social and political development.
4. American history, with the elements of civil government.

**NOTE.**—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since, however, the examination will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

**Advanced** (counting one point)

The requirement in Advanced History is intended to be an equivalent for History **A**—the course prescribed in Columbia College

(see courses given by Department of History). The work done at school, therefore, should be substantially identical with that course. Those candidates who have taken the examination in Elementary History, and desire to offer History as an advanced subject, must present themselves for examination upon the historical fields included in *that group which they did not offer as an elementary subject*. For example, if a candidate offers the first group as the elementary subject, he must offer the second group as the advanced subject, and *vice versa*. The examination will pre-suppose superior ability on the part of the candidate in Advanced History to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.

As further evidence of proficiency, satisfactory written work, done at school and duly certified by the teacher as to independent preparation, must be submitted. This work must be presented in the form of a note-book, or bound collection of notes, containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.
- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

The written work must be sent to the Secretary of Columbia University, two weeks before the entrance examination begins.

#### LATIN

##### Elementary (counting four points \*)

##### 1. Latin Grammar.

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive; also so much of prosody as concerns accent, versification in general, and the dactylic hexameter.

\* Candidates for admission to Columbia College, Teachers College, or the Schools of Applied Science who are unable to offer the whole of Elementary Latin will be permitted to offer two points from this subject. Such candidates should offer parts 1, 2, and 3 as indicated above.



## 2. Latin Composition I.

Translation into Latin of detached sentences and very easy continuous prose based upon Cæsar and Cicero.

## 3. Cicero.

Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

## 4. Vergil.

The first six books of the *Æneid*.

## 5. Latin Composition II.

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

## 6. Sight Translation.

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

**Advanced** (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course known as Latin A (see courses announced by the Department of Latin). This course comprises the reading of Cicero's *De Senectute* and *De Amicitia*, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniells's *New Latin Composition*; also the reading of the first and third books of the *Odes* of Horace, with a satisfactory knowledge of the prosody.

**MATHEMATICS**

**Elementary** (counting three points)

## 1. Algebra to quadratics.

Factors, common divisors, and multiples, fractions, equations of the first degree with one or more unknown quantities, evolution, the doctrine of exponents, radicals, radical equations reducible to equations of the first degree, and putting problems into equations.

## 2. Algebra from quadratics.

Quadratic equations, equations with one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive entire exponents.

## 3. Plane geometry.

Plane geometry, including the solution of simple original exercises and numerical problems.

**Advanced (counting one point)**

## 1. Solid geometry.

Solid and spherical geometry, including the solution of simple original exercises and numerical problems.

## 2. Algebra.

The arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the use of four-place and five-place tables of logarithms.

## 3. Plane trigonometry.

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

## PHYSICS

**Elementary (counting one point)**

The candidate's preparation in physics should include:

- a. The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises distributed about as follows: mechanics 17, sound 3, heat 5, light 6, electricity 9.

A list of suitable experiments in physics is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

**LABORATORY NOTE-BOOK.**—Every candidate must present *at the time of his examination in physics* a note-book in which he has recorded the steps and the results of his laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
 in the physical laboratory of.....School  
 during the year 19....

Instructor in Physics.

**Advanced** (counting one point)

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way. Besides class-work, it must include at least sixty experiments actually performed in the laboratory by the candidate. A laboratory note-book must be submitted at the time of the examination. It must contain a certificate from the teacher that it is a true record of the candidate's work. It will be returned to the candidate upon subsequent application to the Secretary of the University.

**PHYSIOGRAPHY** (counting one point)

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.\*

The candidate will be required to present at the time of his examination the original note-book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

**SPANISH** (counting two points)

**THE AIM OF THE INSTRUCTION.**—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

**THE WORK TO BE DONE.**—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

\* For a more detailed statement of the requirement in physiography the reader is referred to the definitions of the requirements published by the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdès's *José*; Galdós's *Doña Perfecta*; *Marianela*; Parde Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

#### ZOÖLOGY (counting one point)

In general, zoölogy is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

*Practical Zoölogy.* A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (*Hydra*), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical zoölogy.

## REGULATIONS FOR THE UNIVERSITY DEGREES

### Master of Arts and Doctor of Philosophy

1. Candidates for the degrees of Master of Arts and Doctor of Philosophy must hold a baccalaureate degree in arts, letters, philosophy, or science, or an engineering degree, or an equivalent of one of these from a foreign institution of learning.

Every candidate for a higher degree must present to the Dean of each school in which he intends to study satisfactory evidence that he is qualified for the studies he desires to undertake.

2. Candidates for the degrees of Master of Arts and Doctor of Philosophy must pursue their studies in residence for a minimum period of one and two years, respectively.\* The year spent in study for the degree of Master of Arts is credited on account of the requirement for the degree of Doctor of Philosophy. Residence at other universities may be credited to a candidate. In certain cases and by special arrangement, time exclusively devoted to investigation in the field will be credited in partial fulfillment of the time required. The satisfactory completion, at not less than four Summer Sessions, of courses of instruction having in all a value of eight hours' work a week for one academic year will be accepted as fulfilling the minimum requirement of one year's University residence. No degree will be conferred upon any student who has not been in residence at Columbia University for at least one year.

3. Each student who declares himself a candidate for the degrees of Master of Arts and Doctor of Philosophy, or either of them, shall, immediately after registration, designate one principal or major subject and two subordinate or minor subjects.

Candidates are expected to devote at least one half of their time throughout their course of study to the major subject. In the case of laboratory courses this implies two days a week, or its equivalent, as determined by each department. Each minor subject is intended to occupy approximately one fourth of the time during one year for the degree of Master of Arts, and during two years for the degree of Doctor of Philosophy.

Minor subjects may not be changed except by permission of the Dean, to be given only on the written recommendation of the heads of

\* In practice three years of study are usually necessary to obtain the degree of Doctor of Philosophy.

the departments from which and to which the change is desired; major subjects may not be changed except by a special vote of the Faculty in each case.

Candidates for the degree of Master of Arts or Doctor of Philosophy may, with the consent of the Dean of the Faculty concerned and of the professor in charge of his major subject, select both minor subjects within the same department, and may divide a minor subject, taking parts of two subjects germane to his major subject.

4. The subjects from which the candidate's selection must be made are:

#### UNDER THE FACULTY OF PHILOSOPHY

I. *Major Subjects* : 1. Philosophy; 2. psychology; 3. education; 4. linguistics; 5. comparative literature; 6. classical archæology and epigraphy; 7. Greek language and literature, and, incidentally, Grecian history; 8. Latin language and literature, and, incidentally, Roman history; and the following, *including in each case the study of both the language and the literature* : 9. English; 10. Germanic; 11. Romance; 12. Sanskrit (with Pali) and Iranian; 13. Semitic; 14. anthropology; 15. Chinese. Nos. 3, 5, 9, 10, 11, 12, 13, and 15 count each as the equivalent of a major and one minor subject.

II. *Minor Subjects* : 1. Philosophy; 2. psychology; 3. logic; 4. education; 5. anthropology; 6. linguistics; 7. comparative literature; 8. Greek; 9. Greek archæology; 10. Latin; 11. Roman archæology; 12. Sanskrit; 13. Iranian; 14. English; 15. Anglo-Saxon; 16. Gothic; 17. Germanic philology; 18. German language and literature; 19. Scandinavian languages and literatures; 20. Romance philology; 21. French language and literature; 22. Spanish language and literature; 23. Italian language and literature; 24. Hebrew; 25. Arabic; 26. Assyrian; 27. Syriac; 28. Ethiopic; 29. Semitic epigraphy; 30. Turkish; 31. Armenian; 32. Chinese; 33. Coptic.

In his choice of subjects under this Faculty, the candidate is limited by the regulation that not more than two of the three subjects may be selected from those offered by any one department. A major subject will involve attendance at lectures and seminars amounting to four or more hours weekly; a minor subject will involve attendance of two or more hours weekly.

#### UNDER THE FACULTY OF POLITICAL SCIENCE

Group I.—History and political philosophy: 1. European history; 2. American history; 3. ancient history; 4. political philosophy.

Group II.—Public law and comparative jurisprudence: 1. Constitutional law; 2. international law; 3. administrative law; 4. comparative jurisprudence.

Group III.—Economics and social science: 1. Political economy and finance; 2. sociology and statistics.

In his choice of subjects under this Faculty, the candidate is limited

by the regulation that not more than two of the three subjects may be selected from any one of the above groups, and by the following rules:

Candidates offering European history as the major subject must offer American history as one of the minor subjects, and *vice versa*.

Candidates offering political economy and finance as the major subject must offer sociology and statistics as one of the minor subjects, and *vice versa*.

Candidates offering constitutional law as the major subject must take administrative law or international law as one minor subject.

Candidates offering international law or administrative law as the major subject must take constitutional law as one minor subject.

To be recognized as a major subject for the degree of Master of Arts, the courses selected must aggregate at least two hours per week throughout the year, and must also include attendance at a seminar; for a minor subject for the degree of Master of Arts the attendance at a seminar is not required.

To be recognized as a minor subject for the degree of Doctor of Philosophy, courses must be taken, in addition to the requirements for a minor subject for the degree of Master of Arts, aggregating two hours weekly. All the courses and seminars offered in the major subject must be taken by the candidates for the degree of Doctor of Philosophy.

#### UNDER THE FACULTY OF PURE SCIENCE

1. Anatomy; 2. astronomy; 3. bacteriology; 4. botany; 5. chemistry; 6. geodesy; 7. geology; 8. lithology; 9. mathematics; 10. mechanics and electro-mechanics; 11. mineralogy; 12. palæontology; 13. physics; 14. physiology; 15. zoölogy; 16. physiological chemistry.

In his choice of subjects under this Faculty, the candidate is limited by the regulation that no two of the subjects selected may be in any one department, unless the consent of the Faculty thereto shall have first been obtained.

#### UNDER THE FACULTY OF APPLIED SCIENCE AND IN THE SCHOOL OF ARCHITECTURE

Mining; metallurgy; engineering (civil, mechanical, electrical, and sanitary); architecture; mechanics, and electro-mechanics.

The Faculty of Applied Science requires that at least one minor subject be taken under the Faculty of Pure Science.

A minor subject may be taken in the same department as the major, but no two minors may be taken in the same department, unless the consent of the Faculty thereto shall be first obtained.

5. Each student is given a registration book, to be obtained at the office of the Registrar, which should be signed by the professor or instructor in charge of each course of instruction or investigation at the beginning and end of each course. This registration book is to be

preserved by the student as evidence of courses attended, and should be submitted to the Deans of the several Faculties at the end of each year, that the proper credit may be given for the courses attended, after which the registration book becomes the permanent property of the student.

6. (a) Students desiring to be examined for the degree of Master of Arts, Master of Laws, or Doctor of Philosophy shall make application on or before April 1 of the academic year in which the examination is desired, on blanks provided by the University, to the Registrar of the University.

(b) Immediately after April 1, the Registrar shall notify the Deans of the Faculties of Political Science, Philosophy, and Pure Science, of the names of students applying for examination for higher degrees in each of these three Faculties, together with the subjects in which the candidate offers himself for examination and the degree for which he is a candidate.

(c) The examination shall be held under the authority and direction of the several Deans.

(d) The results of such examinations shall be reported as soon as possible to the Registrar, who shall transmit to the Secretary of the University Council the record of each successful candidate for a degree, as soon as such record is complete.

7. Each candidate for the degree of Master of Arts shall present an essay on some topic previously approved by the professor in charge of his major subject. Before the candidate is admitted to examination the professor in charge of his major subject must have signified his approval of such essay. This essay must be presented not later than May 1 of the academic year in which the examination is to take place. The Faculty of Political Science requires this essay to be a paper read during the year before the seminar of which the candidate is a member.

When the essay has been approved, the candidate shall file with the Librarian of the University a legibly written or typewritten copy of it. This copy is to be written on firm, strong paper, eleven by eight and a half inches, and a space of one and a half inches on the inner margin must be left free from writing.

8. Each candidate for the degree of Doctor of Philosophy shall present a dissertation embodying the result of original investigation and research on some topic previously approved by the professor in charge of the candidate's major subject. When such dissertation has been approved by the said professor, it shall be printed by the candidate, under the direction of the Dean of the Faculty, and one hundred and fifty copies shall be delivered to the University, unless, for reasons of weight, a smaller number be accepted by special action of the University Council. On the title-page of every such dissertation shall be printed the words: "Submitted in partial fulfilment of the requirements for the Degree of Doctor of Philosophy, in the Faculty of ———, Columbia University."



Each dissertation shall contain upon its title-page the full name of the author; the full title of the dissertation; the year of imprint, and, if a reprint, the title, volume, and pagination of the publication from which it was reprinted; and there shall be appended to each dissertation a statement of the educational institutions that the author has attended, and a list of the degrees and honors conferred upon him, as well as the titles of his previous publications.

All dissertations for the degree of Doctor of Philosophy must be submitted for approval not later than April 1 of the academic year in which examination is desired.

In case of excessive cost and delay in publishing a dissertation which has been approved by a department, and accepted for publication by a reputable journal or scientific or literary association, the degree of Doctor of Philosophy may be conferred before the publication is completed. The facts in every such case concerning the publication are to be certified to the Council by the Faculty concerned.

In cases where advanced degrees are conferred before the copies of the dissertation are deposited with the Librarian, the diploma shall be withheld until such copies shall be received by the Librarian.

In the Faculties of Philosophy and Pure Science, the dissertation is not required to be printed until after the examination of the candidate.

In the Faculty of Political Science, the examination on the major and minor subjects and on languages, but not on the dissertation itself, may be held before the printed dissertation is submitted.

The Faculty of Pure Science requires the dissertation to be printed in the size and form of the *Annals* or the *Memoirs* of the New York Academy of Sciences, according to the nature of the subject. Final examination may be granted upon acceptance of the dissertation by the department concerned.

The Faculty of Applied Science requires the dissertation to be printed in the size and style of the *School of Mines Quarterly*, and delivered to the Faculty not later than May 1 of the academic year in which the examination is to take place.

9. Every candidate for the degree of Doctor of Philosophy must pass, besides such other examinations as the Faculty may require, an oral examination on all three subjects, and must defend his dissertation, in the presence of the entire Faculty, or of so many of its members as may desire or as may be designated by the Faculty to attend. The ability to read at sight French and German, to be certified in each case by the Dean of the Faculty concerned, is required by all the Faculties. The Faculty of Political Science also requires the ability to read Latin at sight; and candidates are examined on Latin, French, and German, as upon other subjects, in the presence of the Faculty.

In the Faculty of Philosophy, admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are ad-

mitted to candidacy for the degree of Doctor of Philosophy who (1) are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie; and (2) are certified as to their ability to read French and German by the heads of those departments; and (3) are certified as to their ability to read Latin by the head of that department; provided that students whose major subject is psychology, anthropology, education, or music, shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches.

10. Students holding college degrees, who shall have completed with marked distinction one of the regular courses in the School of Law, the School of Medicine, the School of Mines, the School of Chemistry, the School of Engineering, or the School of Architecture, may be recommended for the degree of Master of Arts; provided that in each case the candidate, while pursuing his professional course, shall have taken additional work, under the direction of the Faculty of Philosophy, the Faculty of Political Science, or the Faculty of Pure Science, to the extent of a minor subject, as recognized by the Faculty concerned, for not less than one academic year.

Every such candidate shall present an essay on some topic previously approved by the professor in charge of his minor subject. Before the candidate is admitted to examination the professor in charge of his minor subject must have signified his approval of such essay. This essay must be presented not later than May 1 of the academic year in which the examination is to take place. The Faculty of Political Science requires this essay to be a paper read during the year before the seminar of which the candidate is a member.

When the essay has been approved, the candidate shall file with the Librarian of the University a legibly written or typewritten copy of it. The copy is to be written on firm, strong paper, eleven by eight and a half inches, and a space of one and a half inches on the inner margin must be left free from writing.

11. No student shall continue to be a candidate for the degree of Doctor of Philosophy for a longer period than three years from the time he ceases to be in residence.

### **Master of Laws**

1. Any student who has satisfactorily completed the regular course of study in Columbia College, to the close of the junior year, or in some other college maintaining an equivalent curriculum (every such case of equivalency to be considered on its own merit), shall be entitled to be recommended for the degree of Master of Laws upon certificates from the Faculty of Law and the Faculty of Political Science that he has satisfactorily completed a four-years' course of study under said Faculties.

2. Every candidate for the degree of Master of Laws must elect from the subjects offered by said Faculties courses aggregating, in the four years, fifty-two hours per week, and must pass satisfactory examinations upon the subjects elected; provided that not more than thirty-four hours of work may be elected either in the field of private law, or in that of public law, social ethics, history, and economics.

3. Students, otherwise qualified, who have received the degree of Bachelor of Laws from this University after pursuing the full course of study, shall be entitled, upon pursuing for an additional year a course of study of at least thirteen hours per week, under either or both of said Faculties, and passing satisfactory examinations therein, to receive the degree of Master of Laws; provided that no student shall receive the degree who has not studied and passed satisfactory examinations in comparative constitutional law, administrative law, Roman law, international law, and in the three courses offered on equity,\* and who has not pursued here, or elsewhere, courses of instruction satisfactory to the Faculty of Political Science in history, social ethics, and economics.

4. Each Faculty shall determine the order in which the subjects offered by it shall be taken, and the maximum amount of work to be done therein during any one year.

5. Students from other universities, colleges, or law schools, who shall have satisfactorily completed a course of study equivalent to at least one term of thirteen hours per week in the subjects indicated in Section 2, after receiving a bachelor's degree, may be excused from the corresponding number of terms of the four-years' residence required at Columbia, provided that in no case shall any one receive the degree of Master of Laws who has not spent at least four years in the study of the said subject in some university, college, or law school; and the decision whether work at another institution shall be accepted as equivalent to work at Columbia shall rest, so far as the studies under the Faculty of Law are concerned, with the Faculty of Law, and, so far as the studies under the Faculty of Political Science are concerned, with the Faculty of Political Science. But neither Faculty shall admit a student from another university, college, or law school, to examination for the degree of Master of Laws without a residence of at least one year in this University.

\* Under this provision students would be allowed, but not required, to take history of European law, conflicts of law, law of municipal corporations, and the law of taxation.

## COLUMBIA COLLEGE

The following departments are represented in the Faculty:

ASTRONOMY	LATIN
BOTANY	MATHEMATICS
CHEMISTRY	MECHANICS
COMPARATIVE LITERATURE	PHILOSOPHY and PSYCHOLOGY
ENGLISH	PHYSICS
GEOLOGY	POLITICAL ECONOMY
GERMANIC LANGUAGES AND LITERATURES	ROMANCE LANGUAGES AND LITERATURES
GREEK	SEMITIC LANGUAGES
HISTORY	ZOÖLOGY
INDO-IRANIAN LANGUAGES	

### Officers of the Faculty

#### *Ex-Officio Members of the University Council*

J. H. VAN AMRINGE, Ph.D., L.H.D., LL.D. ....	<i>Dean</i>
H. T. PECK, Ph.D., L.H.D. ....	<i>Secretary</i>

### Standing Committees

#### COMMITTEE ON CURRICULUM AND

##### SCHEME OF ATTENDANCE

Professor Van Amringe, *Chairman*

"	Perry
"	Hallock
"	Sloane
"	Lord

#### COMMITTEE ON ADMISSIONS

Professor G. R. Carpenter,  
*Chairman*

"	Hallock
"	Thomas
"	McCrea
"	Maclay

#### COMMITTEE ON SCHOLARSHIPS

Professor Van Amringe, *Chairman*

"	Peck
"	Young

#### COMMITTEE ON HONORS

Professor Rees, *Chairman*

"	Cohn
"	Egbert

### The Faculty

NICHOLAS MURRAY BUTLER, LL.D., *President and Professor of  
Philosophy and Education*

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D. .... *Professor of  
Mathematics*

CHARLES F. CHANDLER, Ph.D., M.D., LL.D. . . . *Professor of Chemistry*

- JOHN W. BURGESS, Ph.D., LL.D..*Professor of Political Science and Constitutional Law*
- THOMAS R. PRICE, LL.D..*Professor of the English Language and Literature*
- JOHN KROM REES, E.M., Ph.D.....*Professor of Astronomy*
- H. T. PECK, Ph.D., L.H.D.....*Professor of the Latin Language and Literature*
- EDWIN R. A. SELIGMAN, LL.B., Ph.D....*Professor of Political Economy and Finance*
- WILLIAM H. CARPENTER, Ph.D.....*Professor of Germanic Philology*
- ADOLPHE COHN, LL.B., A.M....*Professor of the Romance Languages and Literatures*
- GEORGE EDWARD WOODBERRY, A.B. *Professor of Comparative Literature*
- EDWARD DELAVAN PERRY, Ph.D. *Jay Professor of the Greek Language and Literature*
- A. V. WILLIAMS JACKSON, L.H.D., Ph.D. *Professor of Indo-Iranian Languages*
- RICHARD J. H. GOTTHEIL, Ph.D....*Professor of Rabbinical Literature and the Semitic Languages*
- WILLIAM A. DUNNING, Ph.D.....*Professor of History*
- JAMES F. KEMP, E.M.....*Professor of Geology*
- EDMUND B. WILSON, Ph.D.....*Professor of Zoölogy*
- WILLIAM HALLOCK, Ph.D.....*Adjunct Professor of Physics*
- ROBERT S. WOODWARD, C.E., Ph.D....*Professor of Mechanics and Mathematical Physics*
- GEORGE R. CARPENTER, A.B.....*Professor of Rhetoric and English Composition*
- HENRY A. TODD, Ph.D.....*Professor of Romance Philology*
- THOMAS SCOTT FISKE, Ph.D.....*Professor of Mathematics*
- JAMES RIGNALL WHEELER, Ph.D.....*Professor of Greek*
- JAMES C. EGBERT, Jr., Ph.D.....*Professor of Roman Archæology and Epigraphy*
- \*JAMES H. HYSLOP, Ph.D.....*Professor of Logic and Ethics*
- CARLO L. SPERANZA, A.M., B. ès L..*Adjunct Professor of the Romance Languages and Literatures*
- CALVIN THOMAS, A.M.....*Gebhard Professor of the Germanic Languages and Literatures*
- WILLIAM MILLIGAN SLOANE, Ph.D., LL.D..*Seth Low Professor of History*
- LUCIEN M. UNDERWOOD, Ph.D.....*Professor of Botany*
- CHARLES E. PELLEW, E.M.....*Adjunct Professor of Chemistry*
- BRANDER MATTHEWS, D.C.L., Litt.D..*Professor of Dramatic Literature*
- HERBERT GARDINER LORD, A.M.....*Professor of Philosophy*
- NELSON GLENN MCCREA, Ph.D.....*Adjunct Professor of Latin*
- CLARENCE H. YOUNG, Ph.D.....*Adjunct Professor of Greek*
- JAMES MACLAY, C.E., Ph.D.....*Adjunct Professor of Mathematics*

\* Absent on leave.



Elementary French (page 192).....	counting 2 points
Elementary German (page 194).....	" 2 "
Spanish (page 201).....	" 2 "

The candidate may offer not more than 2 points in all from the five subjects following:

Elementary Physics (page 200).....	counting 1 point
Chemistry (page 189).....	" 1 "
Botany (page 188).....	" 1 "
Physiography (page 201).....	" 1 "
Zoölogy (page 202).....	" 1 "

For information regarding the time and place at which entrance examinations are held, regulations regarding division of examinations, examinations outside of New York, application blank, and examination fee, see pages 185-187.

### Certificates in Lieu of Entrance Examinations

3. Columbia College accepts, in lieu of its entrance examinations, no credentials of any sort except the Regents' Academic Diploma \* and the certificates of universities and colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All certificates offered in lieu of entrance examinations must be sent to the chairman of the College Committee on Admissions at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are accepted in whole or in part will be posted on the bulletin board at least one day in advance of the beginning of the examinations.

*The separate pass-cards, the Academic Equivalent Certificate, and the several other certificates issued by the Regents of the State of New York are not accepted by the College in lieu of examinations.*

*The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the College.*

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Report of Entrance Examinations

4. The Committee on Admissions will report to the Dean as soon as practicable after the conclusion of the entrance examinations in

\* Every Regents' Academic Diploma is considered as covering the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in French unless it covers the complete two-years' high-school course in French recognized by the Regents. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in German unless it covers the complete two-years' high-school course in German. A Regents' Academic Diploma, to be accepted in lieu of all parts of the examination in Latin or of the examination in Greek, must specifically cover, among other things, sight reading and prose composition. In the case of the natural sciences, a Regents' Academic Diploma will not be accepted for the required laboratory work.

June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, of those who must present themselves for re-examination in September, and of those who have been rejected.

The Committee on Admissions will report to the Dean not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

Except for reasons of weight, satisfactory to the Committee on Admissions, the results of an entrance examination will not be allowed to stand to the credit of a candidate for a longer period than sixteen months.

### Admission to Advanced Standing

5. Candidates for admission from other colleges, and those desiring to be admitted to advanced standing on examination, must make application in writing to the College Committee on Admissions. Proper blanks for the purpose may be obtained from the Secretary. The application should be made at least one week before the first day of the September entrance examinations.

Each candidate for admission to advanced standing must show that he has attained proficiency in the equivalent of

1. The requirements for admission to the freshman class.
2. All the prescribed studies already pursued by the class to which he seeks admission.
3. As many elective studies as he would have pursued if he had entered the class at the beginning of the freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the A.B. degree until he shall have brought all his studies up to the point required for that degree.

Each candidate from another college is expected to furnish official statements of his record in his various college studies, and letters or other evidence showing the opinion of his instructors in regard to his scholarship and character. He should also submit a catalogue or announcement of the college that he leaves, in which are plainly marked every requirement for admission and every course of instruction for which he has received credit.

No applicant will be allowed to enter the senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

### Special Students

6. Special courses of study are offered by the College to young men, of proper age and character, who wish, without reference to any degree,



to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the freshman class. Candidates for admission as special students are required to present themselves at the entrance examinations and to fulfil the requirements for admission to the freshman class (see p. 212). Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Secretary.

*Applications from men of maturity, who have been several years out of school or college and have had a valuable educative experience in practical life, will be considered on their merits as a class by themselves.*

Once admitted to the College special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given. The courses selected by a special student must, however, occupy at least ten hours a week.

*Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of his application, been rejected as a regular student, or has, within that period, become deficient as a regular student. No one will be admitted as a special student who wishes merely to pursue elementary subjects included among the requirements for admission to the College or Schools of Applied Science.*

7. In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

#### Entrance Conditions and Probation

8. Students admitted conditionally to the freshman class at the beginning of the academic year will be held under probation till the end of the first half-year.

Not later than Tuesday of the second week following the Christmas holidays, the head of each department in which students on probation attend will make to the Dean a special report of progress in the case of each such student. The Dean will, as soon as practicable, and not later than the end of the half-year, decide as to each student on probation, whether he shall be dropped from the roll of the College, or have his period of probation extended.

9. If any member of the freshman class shall receive at the mid-year or the concluding examination a grade in scholarship of C, or higher, in any department, this grade will be regarded as removing any entrance condition that may be recorded against him in that department.

Any member of the freshman class conditioned at entrance must make good by examination every condition that is not removed under the operation of the foregoing provision. He should present himself for this purpose at the entrance examinations in June or September of the year following his admission.

See under "Proficiency and Deficiency."

### **Matriculation, Registration, and Enrolment**

(See page 18.)

For the regulations prescribed for all students see page 18. The following regulations are also prescribed for students in the College:

10. At the opening of the year, all students are required to present themselves at the office of the Registrar, 109 Library, for registration and enrolment on the Wednesday, Thursday, or Friday of the week preceding the first Monday in October of each year. Registration and enrolment at a later date are permitted to candidates who obtain the written consent of the Dean, satisfactory cause for the delay having been shown. Credit for attendance will date from the first Monday in October. All students will be held strictly accountable for absences incurred owing to enrolment at a later date, unless excused by the Dean.

### **Fees**

(See page 19)

### **Scholarships**

(See page 35)

## **COURSE OF STUDY**

The attention of students is called to the following regulations relating to the selection of studies and to the requirements for the degree of Bachelor of Arts.

11. Candidates for the degree of Bachelor of Arts are required to present courses making a total of sixty points, each point having the value of a subject pursued one hour a week for one academic year, except that laboratory or drawing-academy hours shall be counted for one half of the number of hours actually occupied. Not less than twelve, nor more than eighteen, points may be presented in any one year without the consent of the Dean. No one-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed. To the end of his junior year, a student must always pursue not fewer than three courses having a value of at least three points each. The required gymnasium work of the freshman and sophomore years must also be satisfactorily completed.

The courses necessary to meet the above requirement may be chosen by the student at will from the courses announced each year, subject

to the restrictions named in connection with each course, and to the general restriction that the following studies are prescribed:

### Prescribed Studies

#### *English :*

- English **A**, 3 hours, freshman year. }  
English **B**, 2 hours, sophomore year. }  
Prescribed for all students.

#### *Latin and Greek :*

- Latin **A** or **B**, or Greek **B**, 3 hours, freshman year.  
Prescribed for students who offer Elementary Latin and Greek, but not advanced Latin or Greek, for admission.  
Latin **A** or **B**, 3 hours, freshman year.  
Prescribed for students who offer Elementary Latin, but not Greek or Advanced Latin, for admission.  
Latin **X**, 5 hours, freshman year. }  
Latin **Y**, 3 hours, sophomore year. }  
Latin **Z**, 3 hours, junior year. }  
Prescribed for students who do not offer Elementary Latin for admission.

#### *French :*

- French **A**, 3 hours, freshman or sophomore year, as the Dean may permit or prescribe.  
Prescribed (unless French **B** be elected) for students who do not offer Elementary French for admission.

#### *German :*

- German **A**, 3 hours, freshman or sophomore year, as the Dean may permit or prescribe.  
Prescribed (unless German **I** be elected) for students who do not offer Elementary German for admission.

#### *Mathematics :*

- Mathematics **A**, 3 hours, freshman year.  
Prescribed for students who do not offer Advanced Mathematics for admission.

#### *History :*

- History **A**, 3 hours, sophomore year.  
Prescribed for students who do not offer Advanced History for admission.

#### *Psychology :*

- Psychology **A**, 3 hours, first half junior year.  
Prescribed for all juniors.

#### *Economics :*

- Economics **A**, 3 hours, second half junior year.  
Prescribed for all juniors.

*Natural Science :*

Physics, or Chemistry, or Botany, course to be selected on consultation with the Dean. Prescribed for students who do not offer a natural science for admission; may be taken in any one of the four years.

NOTE.—Freshmen are required to be in attendance at the Gymnasium on Monday and Wednesday at 11.30; sophomores at 12.30. In certain cases a modification of these hours may be made upon application to the Director of the Gymnasium.

**Elective Studies**

12. In making out their list of electives, students are confined to the courses given as open to them in the departmental and other statements contained in the Announcement of the College. They must avoid conflicts of courses at the same hour, and for that purpose should consult the hour scheme.

Students just entering must give notice, at the time of registration, of the elective courses chosen by them.

Students in the College are required, on or before September 1, to give notice to the Dean, upon blanks to be procured at the office of the Registrar, of their choice of elective courses. Special attention is called to this requirement, in order to avoid confusion and possible embarrassment to the student.

13. Change of electives will be allowed by the Dean, for reasons of weight stated to him in writing, up to but not later than the fourth Saturday in October for the first term and the third Saturday in February for the second term.

14. No student may take more than four hours' work, not including laboratory work or drawing, on the same day, or more than six hours a week in any department, without the consent of the Dean.

15. The Dean and the head of the department concerned may permit any study prescribed for the degree of Bachelor of Arts to be taken as an elective in an earlier year than that for which it is set down.

16. Elective courses are offered subject to withdrawal if elected by fewer than three students.

**Graduation Theses**

17. Each candidate for graduation shall, with the advice and consent of the instructor in charge of one of the courses in which he has studied, or is studying, select for thesis, or essay, some subject connected with that course, and, on or before December 15, communicate his selection to the Dean for approval. Under such guidance and with such help as the instructor may deem it right to give him, he shall complete the thesis, or essay, and submit it to the Dean on or before April 2 of each year. This thesis, or essay, shall be judged by the head of the department in which the chosen subject lies; and

the judgment shall be passed upon the merit of the thesis, or essay, both in its substance and in its style, and shall be reported in writing by the head of the department to the Dean. In his return to the Dean upon a graduation thesis the examining officer shall report:

1. A grade as to substance;
2. A grade as to style;
3. A grade as to its general merit.

Each thesis shall contain, as appendix, a list of authorities that have been used. It shall contain at least two thousand (2000) words, unless there be special reasons for a reduced length; and it shall be retained as the property of the College, in charge of the Librarian.

If any student fail to comply with these requirements, or if his thesis, or essay, be rejected, he shall not be recommended to the Trustees for graduation.

The graduating theses must be written on firm, strong paper, eleven by eight and one half inches in dimensions, and a space of one and one half inches on the inner margin must be left free from writing.

#### **Teachers College Diploma**

18. The course of study in Teachers College for intending teachers in secondary schools is so arranged that undergraduate students of Columbia College and of Barnard College may, if they so desire, obtain one of the Diplomas of Teachers College at the time of receiving the degree of Bachelor of Arts.

#### **Examinations in Course**

19. Two examinations of all the classes are held every year, one beginning on the last Monday in January, and the other on the Monday of the third week preceding Commencement. The former is called the mid-year examination; the latter the final examination. Any department may omit the mid-year examination in some or all of its courses for seniors, notice of such intended omission to be sent to the Dean on or before December 1 preceding. It is the privilege of any department to announce that, in some or all of its courses, the results of the mid-year examination will be tentative only, the grades given after the final examination applying to the whole year.

Any student who shall have been absent from more than ten per cent. of the exercises in any course during a single half-year shall not be entitled to examination in that course.

Every student is expected and required to keep an account of his absences, and, should he exceed the limit allowed in any course, he must present to the Dean, during the week preceding the stated examination, satisfactory explanation of all his absences, or be debarred from the examination.

Delinquent examinations, to enable deficient or debarred students of all classes to make good their deficiencies, are held within the two

weeks immediately preceding the opening of the College in October; and in addition, for members of the senior class only, during the first week in May.

20. The examinations provided for in the foregoing sections are *stated examinations*. Examinations of students in the College other than these, and held by special permission of the Dean, are *special examinations*.

A student found deficient in any subject at a stated examination will not be allowed a special examination in that subject.

A student absent from a stated examination in any subject will not be allowed a special examination in that subject, except that, if the absence was due to unavoidable circumstances, the Dean may, on proper written certification to him of the circumstances, grant a special examination.

The fee for a special examination is five dollars, which must be paid by the student before being admitted to the examination.

If a student has special examinations in several subjects granted him, under one permit from the Dean specifying each subject, one fee of five dollars shall cover them all.

### Proficiency and Deficiency

21. At the close of every half-year, and after the stated examination has been held, each officer of instruction will report to the Dean a list of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure. Each student's record, up to his senior year, will be transmitted to his parent or guardian by the Dean at the close of each half-year.

A student reported in grade F in any course, or a student absent from a mid-year or final examination in any course, will be accounted deficient in that course, and required to pass another examination in it at the time fixed for the stated examination of debarred and deficient students, unless, for reasons of weight, the Dean shall otherwise direct.

A student reported at the close of the first half-year in grade D in any course must be warned by the instructor in charge thereof that his work is so unsatisfactory that, unless improved, it may result in his being found deficient at the close of the second half-year.

A student reported in grade D in two or more courses may be required by the Dean to take the courses a second time or to substitute other courses.

22. No student may be advanced from the freshman to the sophomore class until he shall (a) have satisfied all the requirements for entrance, and (b) have not less than nine points to his credit.

No student may be advanced from the sophomore to the junior class until he shall have not less than twenty-four points to his credit.

No student may be advanced from the junior to the senior class

until he shall (a) have completed the required gymnasium work, (b) accomplished all the studies of the course specifically required in the first three years, and (c) have not less than forty-five points to his credit.

For advancement under the foregoing sections, a student must be reported in a grade above D in the greater number of the courses giving him the requisite total of points; failing which he shall be dropped from the roll of his class, unless the Dean, for reasons of weight, shall otherwise determine. A student dropped from the roll of his class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but he may enter the next succeeding class and pursue the course or courses in which his deficiency exists, or, in case of elective courses and with the consent of the Dean, other course or courses equivalent thereto in time, and present himself for examination in such course or courses with that class. No student dropped from the roll of his class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, he shall be dropped from the roll of the College, unless, for reasons of weight, the Dean shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

In all cases, the requirements for advancement from class to class must be satisfied before the first Monday in October.

### General Honors

*General Honors* are of two grades, Highest General Honors and General Honors, and are assigned not later than July 1 of each year, without application, under the following conditions:

*Highest General Honors* are awarded to students whose work in the previous college year entitles them to high academic distinction.

*General Honors* are assigned to students of marked excellence who have not won Highest General Honors.

### Departmental Honors

Departmental Honors are awarded at the end of the second year, the end of the third year, and the end of the course, and are known respectively as Sophomore Honors, Junior Honors, and Final Honors.

Sophomore Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, and in mathematics.

Junior Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, mathematics, physics and chemistry, and in history.

Final Honors are awarded in classics, Germanic languages and litera-

tures, Romance languages and literatures, English, comparative literature, mathematics, physics and chemistry, zoölogy and botany, history, economics and social science, and in philosophy.

(a) No scholarship, prize, or other honor will be awarded in any course or department to any student who is reported in a grade below C in any other course or department during the year in which he is a candidate for such scholarship, prize, or honor.

(b) Each student to whom honors may be awarded in any department will receive, immediately after Commencement, a certificate of such award, under the seal of the College and bearing the signatures of the President and the Dean.

For particulars, see special Announcement of the College.

### **Prizes**

(See page 38)

### **Honorable Dismission**

An honorable discharge shall always be granted to any student in good standing who may desire to withdraw from the College; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian, given in writing to the Dean.

Students are requested, in case of withdrawal during the academic year, to file a notice thereof at the office of the Registrar, who will on application provide the blank form for this purpose.

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For any further information the special Announcement of the College may be consulted.



## REGISTER OF STUDENTS

### SENIOR CLASS

ABBOTT, CLINTON GILBERT.....	(Mhtn)	New York City
ALLEN, WILLIAM FITCH.....		Oswego, N. Y.
ANSORGE, MARTIN CHARLES.....	(Mhtn)	New York City
ASCH, DAVID.....	(Mhtn)	New York City
BAKERMEN, JOHN JAMES.....	(Mhtn)	New York City
BAMBACH, GEORGE FREDERICK.....	(Mhtn)	New York City
BARNES, NATHANIEL WARING.....		Newburgh, N. Y.
BARTHOLOMEW, ROBERT BRADFORD.....	(Mhtn)	New York City
BASS, MURRAY HAROLD.....	(Mhtn)	New York City
BECHERT, ALEXANDER OTTO.....	(Bklyn)	New York City
BIKLÉ, JOSEPH S.....		Hagerstown, Md.
BLANK, MARCUS ISSER, M.D., <i>New York University</i> .....	(Mhtn)	New York City
BRINCKERHOFF, HERBERT CORLIES.....		Mt. Vernon, N. Y.
BUTLER, BENJAMIN FRANKLIN.....		Denver, Col.
BUTLER, GEORGE HENRY, JR.....	(Mhtn)	New York City
CASAMAJOR, LOUIS.....	(Bklyn)	New York City
COLIE, DAYTON.....		E. Orange, N. J.
COMSTOCK, WILLIAM PHILLIPS.....	(Mhtn)	New York City
CROWELL, JOHN WHITING.....	(Q)	New York City
DAVIS, ALBERT.....	(Bklyn)	New York City
EARLE, VICTOR DE LA MONTAGNE.....	(Mhtn)	New York City
EGNER, ARTHUR FREDERICK.....		Newark, N. J.
ELIAS, HENRY HART.....	(Mhtn)	New York City
FERRIS, PIERCE PHILIP.....		Plymouth, England
PINK, COLIN GARFIELD.....	(Mhtn)	New York City
FRANK, WALTER.....	(Mhtn)	New York City
FULD, LEONARD FELIX.....	(Mhtn)	New York City
GOODMAN, FRANK VALENTINE.....	(Mhtn)	New York City
HARRISON, RICHARD COMPTON.....	(Bklyn)	New York City
HENDRICKSON, CHARLES LE ROY.....	(Bklyn)	New York City
HEYMAN, HENRY K.....	(Mhtn)	New York City
HILLS, WILLIAM FORREST.....	(Mhtn)	New York City
HOFFMAN, ALFRED.....	(Bklyn)	New York City
HOLMES, FLOYD D.....	(Mhtn)	New York City
ISAACS, STANLEY MYER.....	(Mhtn)	New York City
JENKS, MAURICE LAMOTTE.....		Boonville, N. Y.
KEELER, HOWARD ALLEN.....	(Mhtn)	New York City
KOENIG, NICHOLAS AUGUST.....	(Mhtn)	New York City
LEFFERTS, BARENT.....	(Mhtn)	New York City
LOVEMAN, HERBERT SPENCER.....	(Mhtn)	New York City
McCULLOM, HAROLD CHAFFEE.....	(Bklyn)	New York City
MANDELBAUM, HERBERT DAVID.....	(Mhtn)	New York City
MOSES, JAMES GARFIELD, A.B., <i>University of Louisville</i> .....		Louisville, Ky.
O'DELL, LOUIS S.....	(Bklyn)	New York City
O'LAUGHLIN, GERALD STUART.....	(Mhtn)	New York City

PERRY, THOMAS LOCKWOOD.....	(Mhtn) New York City
PITSKE, EDGAR DUDENSING.....	(Mhtn) New York City
RIGGS, LAWRASON, JR.....	(Mhtn) New York City
SCHULMAN, ROBERT.....	(Bklyn) New York City
SCHUYLER, ROBERT LIVINGSTON.....	(Mhtn) New York City
SEIL, HARVEY AMBROSE.....	Perth Amboy, N. J.
SHAINWALD, RALPH LOUIS, JR.....	(Mhtn) New York City
SHIELDS, HAROLD.....	Nicholson, Pa.
SHOENFELD, JEROME BENJAMIN.....	(Mhtn) New York City
SIMPSON, KENNETH MILLER.....	Beaver Falls, Pa.
STANLEY, HARRY WYLBUR.....	Wichita, Kan.
STRASSER, ARTHUR LEWIS.....	(Mhtn) New York City
TAYLOR, JOHN WARNER.....	Utica, N. Y.
TELLZY, SAMUEL ABRAHAM.....	(Bklyn) New York City
THOMAS, LLOYD BRANT, A.B., <i>College of the City of New York</i> ..	(Mhtn) New York City
TOUSSAINT, CAMILLE AUGUSTUS.....	Jersey City, N. J.
TURNBULL, WILLIAM FYFE.....	Orange, N. J.
VON SHOLLY, BENJAMIN RUDOLPH.....	(Q) New York City
WADDELL, RALPH HENRY.....	Devil's Lake, N. D.
WALLSTEIN, LEONARD MICHAEL.....	(Mhtn) New York City
WELLS, FREDERIC LYMAN.....	(Mhtn) New York City
WERNER, GERARD BERNARD.....	(Mhtn) New York City
WOLFF, EDWIN.....	(Mhtn) New York City
WORTMANN, ALBERT.....	(Mhtn) New York City
Senior Class.....	69

## JUNIOR CLASS

ABELES, HARRY.....	(Mhtn) New York City
ADAMS, ALMON EDGAR.....	Manchester, N. H.
AERY, WILLIAM ANTHONY.....	(Mhtn) New York City
AGATE, FREDERIC JOSEPH.....	(Mhtn) New York City
ALLEN, THEODORE HENRY.....	(Mhtn) New York City
BANNING, HUBERT.....	(Mhtn) New York City
BASSETT, JAMES, JR.....	Wading River, N. Y.
BATES, WILLIAM STEPHEN.....	Port Chester, N. Y.
BEEKMAN, HENRY RUTGERS.....	(Mhtn) New York City
BEHA, JOSEPH L.....	Constableville, N. Y.
BLAKE, CLINTON HAMLIN, JR.....	Englewood, N. J.
BLOOMFIELD, ALLEN J.....	Richfield Springs, N. Y.
BOVEY, JOHN MASTERS, JR.....	(Mhtn) New York City
BRACE, DONALD CLIFFORD.....	(Mhtn) New York City
BRIGGS, YEOMAN.....	(Mhtn) New York City
BRYANT, WILLIAM SIDNEY, JR.....	Dallas, Tex.
BULKLEY, HENRY DAGGETT.....	East Orange, N. J.
BUTLER, HOWARD AUGUSTIN.....	(Mhtn) New York City
CARLSSON, CARL PONTIUS.....	(Mhtn) New York City
DAVIS, ABRAHAM MOSES.....	(Mhtn) New York City
DODGE, MARCELLUS HARTLEY.....	(Mhtn) New York City
DYRSSEN, HARRY HAMMAN.....	(Mhtn) New York City
ELGAR, HAROLD BENJAMIN.....	(Mhtn) New York City
ELGAS, HAROLD MORTIMER.....	(Mhtn) New York City
ELLIS, GEORGE ADAMS.....	Castleton, Vt.
FISHER, JOHN REDWOOD.....	Swiftwater, Pa.
FORBES, FRANCIS BONNER.....	(Mhtn) New York City
FORT, JAY IRVING.....	Newark, N. J.
FOUCAR, FREDERICK HULTMAN.....	(Mhtn) New York City
FRIED, EDWARD SAMSON.....	(Mhtn) New York City
FUNK, MERTON LAYTON.....	(R) New York City

GAY, FRAZER WALKER.....	Newark, N. J.
GILLET, LOUIS BLISS.....	(Mhtn) New York City
GISSEL, HENRY WILLIAM, Jr.....	(Bklyn) New York City
GOLDBERGER, NORMAN SAMUEL.....	(Mhtn) New York City
GOLDENWEISER, EMANUEL.....	Kiew, Russia
GOLDFRANK, WALTER S.....	(Mhtn) New York City
GRAVENHORST, PAUL GERHARD.....	(Bklyn) New York City
GREENE, VAN RENSSELAER HOFF.....	(Mhtn) New York City
GUTMAN, ARTHUR S.....	(Mhtn) New York City
HAAS, HERBERT JOSEPH.....	Atlanta, Ga.
HAMMERSLOUGH, ROSSIN LEWIS.....	(Mhtn) New York City
HANEMANN, EDWARD LOUIS.....	(Mhtn) New York City
HARCOURT, ALFRED.....	New Paltz, N. Y.
HARRIS, HERBERT HENRY.....	(Mhtn) New York City
HAYES, CARLTON HUNTLEY.....	(Mhtn) New York City
HEDINGER, JOHN HARRIS BRADY.....	(Mhtn) New York City
HILL, EMORY.....	Scottsville, Va.
HOUSTON, OSCAR REMPEL.....	(Mhtn) New York City
HUGHES, DON EMANUEL.....	Olean, N. Y.
ISELIN, LOUIS.....	(Mhtn) New York City
JACOBS, WALTER ABRAHAM.....	(Mhtn) New York City
JACOBSTEIN, MEYER.....	(Mhtn) New York City
JOUARD, FAREL LOUIS.....	(Mhtn) New York City
KAHN, ALBERT LOUIS.....	(Mhtn) New York City
KAHN, ELY JACQUES.....	(Mhtn) New York City
KELROE, EDWIN PATRICK.....	Jersey City, N. J.
KNAUFF, GRANT.....	(Q) New York City
KNOX, JAXON.....	(Mhtn) New York City
KREUDER, HERMAN ERNEST.....	(Mhtn) New York City
KRUSA, HENRY BISCHOPP.....	(Bklyn) New York City
LANDAUER, LEO LEVY.....	Natchez, Miss.
LANGE, M. REUBEN.....	London, England
LAWSON, CHARLES FRANCIS.....	(Mhtn) New York City
LAWSON, WILLIAM PINKNEY.....	Montclair, N. J.
LAWTON, MAXWELL FRANCIS.....	(Bklyn) New York City
LINDSAY, JANVIER WHITTON.....	Washington, D. C.
LOENING, RUDOLPH RUBINO.....	(Mhtn) New York City
LYFORD, EDWARD BURT.....	Montclair, N. J.
MCANENY, LEONARD GORDON.....	Jersey City, N. J.
MCINTOCK, HERBERT MONTGOMERY.....	(Mhtn) New York City
MAEDER, JOHN SAMUEL.....	(Mhtn) New York City
MALMBERG, THEODORE JAMES WILLIAM.....	(Mhtn) New York City
MARKS, ELKAN.....	(Mhtn) New York City
MOELLER, PHILIP.....	(Mhtn) New York City
MUNKER, MAURICE J.....	(Mhtn) New York City
MYERS, JAMES.....	(Mhtn) New York City
NEWBURGER, HARRY W.....	New Albany, Ind.
O'CONNELL, FRANK LOUIS.....	(Mhtn) New York City
ODELL, HERBERT ROE.....	Newburgh, N. Y.
OPPENHEIMER, EDGAR DAVIDSON.....	(Mhtn) New York City
OTTENBERG, IRVING.....	(Mhtn) New York City
OTTO, WALTER GUSTAV CARNES.....	Hoboken, N. J.
PETERS, HARRY TWYFORD.....	(Mhtn) New York City
PITOU, EUGENE, Jr.....	(Mhtn) New York City
PODOLSKY, DAVID LOUIS.....	(Mhtn) New York City
PUTZEL, ROBERT M.....	(Mhtn) New York City
REIS, ARTHUR MALCOLM.....	(Mhtn) New York City
RIDDER, BERNARD H.....	(Mhtn) New York City

ROBINSON, JAMES LATIMER.....	(Bklyn)	New York City
RODMAN, BAYARD BLACKWELL.....		Astoria, L. I.
ROSENWASSER, MAURICE EDGAR.....	(Mhtn)	New York City
SCHLACHTER, CHARLES EMILE.....	(Bklyn)	New York City
SCHRAMM, ARNOLD O.....	(Mhtn)	New York City
SCHROEDER, RUDOLPH CARL THEODORE, JR.....		Hoboken, N. J.
SHARPS, CHARLES EDWARD TURNER.....	(Mhtn)	New York City
SPECK, FRANK GOULDSMITH.....		Hackensack, N. J.
SPIEGEBERG, WALTER SCOTT.....	(Mhtn)	New York City
STAUFFEN, ERNEST, JR.....	(Mhtn)	New York City
STEEVES, HARRISON ROSS.....	(Mhtn)	New York City
STEIN, HERBERT LEO.....	(Mhtn)	New York City
STRAY, ARTHUR THOMAS.....		Ossining, N. Y.
SUTTON, GEORGE AUGUSTUS KEENE.....	(Mhtn)	New York City
SWENSON, JOHN AUGUST.....	(Bklyn)	New York City
SWORTFIGUER, HENRY BRAGDON.....	(Mhtn)	New York City
THOMAN, WILLIAM FREDERIC.....	(Mhtn)	New York City
TICE, WALTER ALVIN.....	(Mhtn)	New York City
TINTNER, BENJAMIN ABNER.....	(Mhtn)	New York City
TOMKIES, CHARLES DOSWELL, A.B., <i>Tulane University</i> .....		Cameron, Tex.
TOY, CHANNING RUST.....	(Mhtn)	New York City
TROTTER, JAMES PATTEN.....		Yonkers, N. Y.
UPDIKE, EDWIN HOYT.....	(Mhtn)	New York City
VAN NESS, SCHUYLER WALDRON.....		Newark, N. J.
VERPLANCK, JOHN BAYARD RODGERS.....		Fishkill, N. Y.
VOGEL, EDWIN CHESTER.....	(Mhtn)	New York City
VON BERNUTH, RUDOLPH LUDWIG.....	(Mhtn)	New York City
WALTZ, JACOB.....	(Mhtn)	New York City
WARREN, ARTHUR DUDLEY.....	(Mhtn)	New York City
WARREN, GEORGE EARLE.....	(Mhtn)	New York City
WEISSMAN, CLARENCE.....	(Mhtn)	New York City
WHITIN, ERNEST STAGG.....	(Mhtn)	New York City
WILE, UDO JULIUS.....	(Mhtn)	New York City
WILLCOX, JAMES ERNEST.....		Oxford, N. Y.
WILSON, RANDOLPH COLCLOUGH.....	(Mhtn)	New York City
WUPPERMANN, RAPHAEL KUHNER.....	(Mhtn)	New York City
WYATT, CHRISTOPHER BILLOPP.....	(Mhtn)	New York City
WYCKOFF, CLARENCE JOHNSON.....	(Bklyn)	New York City
Junior Class.....		127

## SOPHOMORE CLASS

AIKEN, ALBERT JOHN, 2d.....	(Mhtn)	New York City
ANSPACHER, HARRY.....	(Mhtn)	New York City
BACH, FRANK A.....	(Mhtn)	New York City
BARRICK, SAMUEL LLOYD.....		Jersey City, N. J.
BARROWS, WILLIAM BURNET.....	(R)	New York City
BATCHELOR, CHARLES BRONK.....	(Mhtn)	New York City
BIDDLE, ARNEY GRAHAM.....		Jersey City, N. J.
BRADLEY, ROBERT HOLMES.....	(Mhtn)	New York City
BRITTAIN, ALEXANDER ALGER.....		Hoboken, N. J.
BURNETT, HENRY LAWRENCE, JR.....	(Mhtn)	New York City
CAROLINE, HYMAN.....	(Mhtn)	New York City
CLARK, THOMAS FAYETTE.....	(Mhtn)	New York City
COHEN, NORMAN MONTEPIORE.....	(Mhtn)	New York City
COOPER, FREDERICK LINN.....	(Mhtn)	New York City
CUTHEL, CHESTER WELDE.....	(Mhtn)	New York City
DAY, MARSHALL MALLORY.....	(Mhtn)	New York City
ECKERT, WHITNEY.....	(Mhtn)	New York City

ELSBERG, ALBERT MARION.....	(Mhtn) New York City
FAIRCHILD, RALPH PLUMB.....	(Mhtn) New York City
FALION, GEORGE MARCUS.....	(Bklyn) New York City
FERRIS, MORRIS DOUW.....	Dobbs Ferry, N. Y.
FRAENCKEL, RICHARD HERMAN, Jr.....	(Mhtn) New York City
FRANK, JOSEPH JULIUS.....	(Mhtn) New York City
GEER, WILLIAM MONTAGUE, Jr.....	(Mhtn) New York City
GOLDWATER, EDWARD.....	(Mhtn) New York City
GROSSMAN, WALDEMAR HEINRICH.....	(Mhtn) New York City
HAGEMAN, GEORGE RUSSELL.....	(Mhtn) New York City
HARPER, HAROLD.....	(Mhtn) New York City
HARRISON, MEYER S.....	(Mhtn) New York City
HEATON, JAMES PUTNAM.....	(Bklyn) New York City
HEUSER, CHARLES FREDERICK.....	Fandy, Utah
HIGBIE, JOHN ROBBINS.....	(Mhtn) New York City
HUBBARD, RALPH HUSTACE.....	(Mhtn) New York City
JOSEPHS, IRVING SAMUEL.....	(Mhtn) New York City
KAYE, BENJAMIN MARK.....	(Mhtn) New York City
KLABER, WILLIAM.....	(Mhtn) New York City
KLEEBERG, GORDON SAUL PHILIP.....	(Mhtn) New York City
KLEIN, FREDERICK EDWARD.....	(Mhtn) New York City
LE ROY, ROBERT.....	(Mhtn) New York City
LEVY, BENJAMIN MORRIS.....	(Mhtn) New York City
LEWIS, ROBERT C.....	Fargo, N. D.
LEWISOHN, JULIUS ARTHUR.....	(Mhtn) New York City
LONDON, MONTE.....	(Mhtn) New York City
LUBLIN, CURTIS.....	(Mhtn) New York City
LYLE, MERVIN ELLSWORTH, Jr.....	(Mhtn) New York City
McKENZIE, DAVID ANDREW.....	Newark, N. J.
MEDALIE, GEORGE ZERDIN.....	(Mhtn) New York City
MEGREE, ROI COOPER.....	(Mhtn) New York City
MESSER, WILLIAM STUART.....	Jersey City, N. J.
MORRIS, DUDLEY HENRY.....	(Mhtn) New York City
MOTT, WALTER WESLEY.....	(Mhtn) New York City
NEWELL, WILLIAM.....	Montclair, N. J.
NICHOLS, CLARENCE.....	Yonkers, N. Y.
NOBLE, FLOYD CLARKE.....	(Mhtn) New York City
OTTEN, LEONARD FLAGGE.....	(Mhtn) New York City
PERKINS, ISAAC CHENDENNIN.....	(Mhtn) New York City
PIEL, WILLIAM F. J.....	(Bklyn) New York City
PRALL, JOHN GOLDSMITH.....	(Q) New York City
ROBINSON, THEODORE GARDNER.....	(Mhtn) New York City
ROTHSCHILD, WALTER L.....	(Mhtn) New York City
SAPIR, EDWARD.....	(Mhtn) New York City
SCHWED, HARRY.....	Somerville, N. J.
SIMONDS, WILLIAM BLOCKALL, Jr.....	(Mhtn) New York City
SLOSSON, STEWARD.....	(Mhtn) New York City
SMITH, LESLIE BREWSTER.....	Mt. Vernon, N. Y.
SPINGARN, SIGMUND.....	(Mhtn) New York City
STINER, PHILIP A.....	(Mhtn) New York City
TAYLOR, JAMES ALBERT.....	Utica, N. Y.
THOMAS, HAROLD LIVINGSTON REED.....	Highland Falls, N. Y.
THURSTON, EDWARD DAY, Jr.....	(Mhtn) New York City
TOLCHINSKY, JOSEPH.....	(Bklyn) New York City
TOWNSEND, STILLMAN DANA.....	E. Orange, N. J.
TREAT, HUGH PETERS.....	(Mhtn) New York City
TUCKER, GEORGE WASHINGTON, Jr.....	(Bklyn) New York City
VAN BUREN, JOHN DASH, Jr.....	(R) New York City

VAN NOSTRAND, NORMAN WYCOFF.....	(Mhtn) New York City
VREELAND, LOUIS BEACH.....	Paterson, N. J.
WALDRON, JAMES LAURENCE.....	(Bklyn) New York City
WALLACH, KAUFMAN RICHARD.....	(Mhtn) New York City
WEBB, HAROLD WORTHINGTON.....	Glen Ridge, N. J.
WILLIS, ARTHUR LIVINGSTON.....	(Q) New York City
WIREN, OSCAR B.....	Minneapolis, Minn.
YOUNGER, GUSTAVUS ADOLPHUS.....	(R) New York City
YOUNKER, IRA MARKS.....	(Mhtn) New York City
ZEITLIN, JACOB.....	(Mhtn) New York City
ZIEGER, GEORGE VREELAND.....	Montclair, N. J.
Sophomore Class.....	86

## FRESHMAN CLASS

ALBERT, HERMAN WINFRED.....	Jersey City, N. J.
AMBERG, JOSHUA LOUIS.....	(Mhtn) New York City
ARNOLD, JOHN WELLES.....	(Mhtn) New York City
ASHFORTH, GEORGE.....	(Mhtn) New York City
BANGS, HENRY McCOMB.....	(Mhtn) New York City
BAUM, PHILIP.....	(Mhtn) New York City
BENTON, NELSON KINGSBURY.....	East Orange, N. J.
BERNHEIM, JAMES B.....	San Antonio, Tex.
BLOCH, SAMSON FRIED.....	(Mhtn) New York City
BLUMENSTIEL, ALBERT.....	(Mhtn) New York City
BOGUE, PERRY DAVID.....	(Bklyn) New York City
BOISSE, JACQUES.....	(Mhtn) New York City
BOYESEN, BAYARD.....	(Mhtn) New York City
BRENNAN, WALTER JOSEPH.....	(Mhtn) New York City
BRIGHAM, HAROLD S.....	Kingston, N. Y.
BROWN, FRANK CORNISH.....	(Mhtn) New York City
BRUCE, MURRAY.....	(Bklyn) New York City
BULKLEY, KENNETH.....	(Mhtn) New York City
BURNS, GRANT.....	(Mhtn) New York City
BUSCH, EMANUEL.....	(Mhtn) New York City
CARPENTER, WARWICK STEVENS.....	(Mhtn) New York City
CASWELL, WILBUR LARREMORE.....	(Bklyn) New York City
CHAMBERS, FRANK WILLIAM.....	(Mhtn) New York City
CORN, BELMONT.....	(Mhtn) New York City
DEIXEL, ABRAHAM.....	(Mhtn) New York City
DENZER, BERNARD SOLOMON.....	New Rochelle, N. Y.
DEVOE WILLIAM BECK.....	(Mhtn) New York City
DICKLER, NATHAN NATHAN.....	(Bklyn) New York City
DOWNES, FLETCHER GARDNER.....	Jersey City, N. J.
EARLE, WILLIAM PITT STRIKER.....	(Mhtn) New York City
EASTMAN, HENRY WESTON.....	Roslyn, N. Y.
EASTON, KERNER.....	(Mhtn) New York City
ECHEVERRIA, FREDERICK JOHN.....	(Mhtn) New York City
ECKSTEIN, HENRY JOSEPH.....	(Mhtn) New York City
EIMER, AUGUST OTTO.....	(Mhtn) New York City
ESSEX, WILLIAM LEOPOLD.....	Nyack, N. Y.
EVANS, JOHN HINMAN.....	Montclair, N. J.
FACKENTHAL, FRANK DIEHL.....	(Bklyn) New York City
FELD, HYMAN.....	(Mhtn) New York City
FELDMAN, HAROLD CLARENCE.....	(Mhtn) New York City
FERRARI, ROBERT ANTONIO.....	(Mhtn) New York City
FONTRIER, MICCO ACHILLES.....	(Mhtn) New York City
FORD, WILLIAM ANDREWS.....	White Plains, N. Y.
FORSCH, SIDNEY.....	(Mhtn) New York City

FOWLER, ROBERT HENRY.....	(Mhtn) New York City
GAIGE, ROSCOE CROSBY.....	(Mhtn) New York City
GAUTERT, CARLETON PALMER.....	(Mhtn) New York City
GORDON, CLARENCE THAYER.....	(Mhtn) New York City
GREEFF, GERHARD ERNEST HUGH.....	(Q) New York City
HANER, CHARLES.....	(Mhtn) New York City
HASTINGS, HAROLD WILLIAM.....	(Mhtn) New York City
HECKER, JOHN MCKEON.....	(Mhtn) New York City
HEIMAN, HUGO.....	Little Rock, Ark.
HERRMANN, WILLIAM MARK.....	(Mhtn) New York City
HIRSCH, GILBERT JULIUS.....	(Mhtn) New York City
HIRSCHBERG, STUART.....	Newburgh, N. Y.
HOLLISTER, SAMUEL THOMSON.....	(Mhtn) New York City
HURLEY, THOMAS LESTER.....	(Mhtn) New York City
ISAACS, SAMUEL.....	(Mhtn) New York City
KAHN, MAX.....	(Mhtn) New York City
KAISER, GORDON HAYM.....	(Mhtn) New York City
KRELER, FLOYD YATES.....	North Salem, N. Y.
KENDLER, JULIUS.....	(Mhtn) New York City
KERR, ARTHUR THOMAS.....	El Paso, Tex.
KIRCHWEY, KARL WENDELL.....	(Mhtn) New York City
KOBBE, HERMAN.....	(R) New York City
KRAETZER, EDGAR RAYMOND.....	(Mhtn) New York City
KRAFF, ALFRED HEMMER.....	(Mhtn) New York City
KRAUSS, FLETCHER IRWIN.....	East Orange, N. J.
LAHNSTEIN, CECIL MORRIS.....	(Mhtn) New York City
LAMONT, JOSEPH R.....	(Bklyn) New York City
LEE, HAMPTON.....	(Mhtn) New York City
LEVENTRITT, LEO LITHAUER.....	(Mhtn) New York City
LIPPMANN, FRANK BENEDICT.....	(Mhtn) New York City
LOENTHAL, CLARENCE H.....	(Mhtn) New York City
LONG, WILLIAM BAYARD.....	(Mhtn) New York City
MCCARTHY, THEODORE.....	(Mhtn) New York City
MCDONALD, EDWARD OSWALD WHITE.....	(Mhtn) New York City
MCDONALD, FRANK PETER.....	(Mhtn) New York City
MCDONALD, JAMES EDWARD WHITE.....	(Mhtn) New York City
MACBETH, ROBERT WALKER.....	(Bklyn) New York City
MACDONALD, CHARLES DOUGLAS.....	(Mhtn) New York City
MACKENZIE, ALEXANDER.....	Dobbs Ferry, N. Y.
MARWICK, ROBERT HUGH.....	Petrolia, Canada
MARX, CARL JOSEPH.....	(Mhtn) New York City
MAYNARD, EDWIN TAYLOR.....	(Mhtn) New York City
MESSNER, JULIUS.....	(Mhtn) New York City
MILLER, ELMER CRAVER.....	Newark, N. J.
MITCHELL, WILLIAM JOHN.....	(Mhtn) New York City
MOONEY, HARRY RICH.....	(Mhtn) New York City
MOORE, GEORGE GELSTON, JR.....	(Mhtn) New York City
MORRALL, CHARLES FRANCIS.....	Stafford Springs, Conn.
MYERS, ALFRED STUART.....	(Mhtn) New York City
NATHAN, ELI MORRIS.....	(Mhtn) New York City
O'CONNELL, EDWARD JOSEPH.....	(Bklyn) New York City
OPPER, LAWRENCE.....	(Mhtn) New York City
OSBORN, CHARLES WHYTLAW.....	Bellport, N. Y.
PARDEE, HAROLD ENSIGN BENNETT.....	(Mhtn) New York City
PERRY, ARTHUR CECIL FOX.....	(B) New York City
PETER, GEORGE WILLIAM.....	(B) New York City
PIERREPONT, RUTHERFORD STUYVESANT.....	(Bklyn) New York City
PINCENEY, THOMAS, JR.....	Morristown, N. J.

PITT, GERARD.....	New Rochelle, N. Y.
POLLAK, WALTER HEILPRIN.....	(Mhtn) New York City
PORTER, WILLIAM REDFIELD.....	(Mhtn) New York City
POST, HENRY BURNET.....	(Mhtn) New York City
RAYMOND, DANIEL V.....	(R) New York City
REJALL, ALFRED ERNST.....	(Bklyn) New York City
RIBLET, RONALD FRANK.....	(Mhtn) New York City
RICH, CARLETON W.....	(Mhtn) New York City
RICHTER, ROBERT MONTGOMERY.....	(Mhtn) New York City
ROBINSON, JOSEPH PECK.....	Orange, N. J.
ROSENSON, HARRY JAMES.....	(Bklyn) New York City
ROSENTHAL, LEO ALFRED.....	(Mhtn) New York City
SCHIEFFELIN, GEORGE RICHARD DELAPLAINE.....	(Mhtn) New York City
SCHIFFMAN, SAMUEL.....	(Mhtn) New York City
SCOTT, EARLE.....	(Q) New York City
SELVAGE, IRVING LESTER.....	Newark, N. J.
SEME, PIXLEY KA ISAKA.....	Mt. Hermon, Mass.
SEYMOUR, JOHN COTES, JR.....	(Mhtn) New York City
SICHEL, WALTER.....	(Mhtn) New York City
SILBERSTEIN, NATHAN.....	(Mhtn) New York City
SLOANE, CHARLES O'CONNOR.....	South Orange, N. J.
SOLOMON, WALTER LEO.....	(Mhtn) New York City
SPENCE, KENNETH MONROE.....	(Mhtn) New York City
SPENCE, LOUIS GARFIELD.....	(Mhtn) New York City
SPRAGUE, FRANKLIN KENNEDY.....	(Mhtn) New York City
STEINER, STANLEY HAROLD.....	(Mhtn) New York City
STEPHENS, RODERICK.....	(Br) New York City
STEPHENSON, ALBERT GRANT.....	(Mhtn) New York City
STEWART, CHARLES ARTHUR.....	(Mhtn) New York City
STREETER, PAUL COOLIDGE.....	(Mhtn) New York City
STURGES, HENRY PEMBERTON.....	(Mhtn) New York City
SWOPE, HAROLD BROWN.....	Biltmore, N. C.
THOMAS, HAROLD ALLEN.....	(Mhtn) New York City
THURBER, ALFRED E.....	Rutherford, N. J.
THURLOW, JOHN NORTHROP.....	(Bklyn) New York City
TILT, WILLIAM AUGUSTUS.....	(Mhtn) New York City
TOMPKINS, GRENELLE BERTRAM.....	Paterson, N. J.
TONNELLE, JOHN SUNEAN, JR.....	(Mhtn) New York City
TOWNSEND, HENRY CLARK, JR.....	(Mhtn) New York City
TRIPP, PERCY BLACKFORD.....	Falls Church, Va.
ULMANN, ERNEST AUGUST EDWARD, JR.....	(Mhtn) New York City
UNTERMAYER, IRWIN.....	(Mhtn) New York City
WADELTON, THOMAS DARRINGTON, JR.....	(Br) New York City
WALLAN, ALEXANDER LEOPOLD.....	(Mhtn) New York City
WEBB, KENNETH SEYMOUR.....	(Mhtn) New York City
WELLES, FRANK CORDAY.....	East Orange, N. J.
WHITE, ROBERT JENKINS.....	(Mhtn) New York City
WIEMANN, ALBERT BERNARD.....	(Mhtn) New York City
WILLIAMS, CHARLES LAIDLAW.....	East Orange, N. J.
WOOD, CHALMERS, JR.....	Ipswich, Mass.
WOOLLEY, JAMES EDWARD.....	Jersey City, N. J.
WORZEL, HENRY HOWARD.....	(Bklyn) New York City
WRIGHT, ERNEST HUNTER.....	(Mhtn) New York City
WRONKER, BENNO MAURICE.....	(Mhtn) New York City
Freshman Class.....	156

## SPECIAL STUDENTS

BASSETT, HARRY KENDALL.....	Berlin, Wis.
BECKMAN, FENWICK.....	(Mhtn) New York City



BORGWALD, CARL.....	Mt. Vernon, N. Y.
BROWNE, DUNCAN HODGE.....	(Mhtn) New York City
BUCHANAN, JAMES.....	(Mhtn) New York City
BUTTERICK, PAUL ALLEN.....	East Orange, N. J.
CHATFIELD, GEORGE HERBERT.....	(Mhtn) New York City
COLLIER, JOHN.....	Atlanta, Ga.
CORLIS, WILLIAM SCOTT.....	Metropolis, Ill.
DAY, HAROLD CURRIER.....	(Mhtn) New York City
DUDLEY, PENDLETON.....	(Mhtn) New York City
ELSWORTH, HAROLD J.....	Irrington-on-Hudson, N. Y.
FERREIRA, LE ROY ELMER.....	Newark, N. J.
FERRIS, OLIVER BUNCE.....	Montclair, N. J.
FLEMING, W. S.....	Scarsdale, N. Y.
FONDA, DOUW HENRY.....	Gloversville, N. Y.
GOODLATTE, ROBERT KIPP RICHARDSON.....	Passaic, N. J.
GREENWOOD, JOHN WASHBURN.....	Limestone, N. Y.
HALPIN, ZACHARIAH POWER.....	(Mhtn) New York City
HASELL, MASON CRUGER.....	(Mhtn) New York City
HOYT, RUSSELL P., Jr.....	(Mhtn) New York City
HURLEY, MARCUS LATIMER.....	(Mhtn) New York City
JACKSON, ROLAND PEARCE.....	(Mhtn) New York City
KELLEY, ROBERT HENRY.....	Tuckahoe, N. Y.
KNOX, RAYMOND COLLYER.....	(Mhtn) New York City
LINSLEY, FRANK WILSON.....	Jersey City, N. J.
LONG, MILTON CLYDE.....	Springfield, Mass.
McKELDEN, WILLIAM BLAGROVE, Jr.....	Washington, D. C.
MACCLYMOND, WILLIAM EARL.....	Plainfield, N. J.
MULLER, NICHOLAS WALTER.....	Lockport, N. Y.
OPPENHEIM, JAMES.....	(Mhtn) New York City
OSK, MARCUS LEONARD.....	(Mhtn) New York City
OZANNE, JAMES ROY.....	Oshkosh, Wis.
QUINN, JAMES HENRY.....	(Mhtn) New York City
RANDOLPH, JOHN.....	Lexington, Ky.
ROLLINS, WARREN FANSHAW.....	(Bklyn) New York City
ROSENBERG, GILBERT L.....	(Mhtn) New York City
ROSSBACH, WILLIAM.....	Mt. Vernon, N. Y.
SAND, ETHELBERT LOW.....	Ardslay-on-Hudson, N. Y.
SEGGER, OTTO FREDERICK.....	Jersey City, N. J.
SHEARMAN, WILLIAM HUGH.....	(Mhtn) New York City
SPRAGUE, LESLIE WILLIS.....	Montclair, N. J.
SUNDHEIMER, ARTHUR I.....	(Mhtn) New York City
WEEKES, HAROLD HATHAWAY.....	(Mhtn) New York City
WEINSTEIN, GASTON.....	(Mhtn) New York City
WOODARD, CLIFFORD ANBROSE.....	New Rochelle, N. Y.
Special students.....	46

## SUMMARY

Senior Class.....	69
Junior Class.....	127
Sophomore Class.....	86
Freshman Class.....	156
Special Students.....	46
Total.....	484

## SCHOOL OF LAW

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### OFFICERS OF INSTRUCTION AND GOVERNMENT

#### Officers of the Faculty

GEORGE W. KIRCHWEY, A.B.... *Dean and ex-officio Member of the  
University Council*  
HENRY S. REDFIELD, LL.D..... *Secretary*  
FRANCIS M. BURDICK, LL.D... *Elected Delegate to the University Council*

#### Faculty of Law

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*  
WILLIAM A. KEENER, LL.D..... *Kent Professor of Law*  
FRANCIS M. BURDICK, LL.D..... *Dwight Professor of Law*  
GEORGE W. KIRCHWEY, A.B..... *Nash Professor of Law*  
GEORGE F. CANFIELD, A.B., LL.B..... *Professor of Law*  
HENRY S. REDFIELD, A.M., LL.D..... *Professor of Law*  
CHARLES T. TERRY, A.B., LL.B..... *Professor of Law*

#### Other Officers

HARLAN F. STONE, A.M., LL.B..... *Lecturer*  
ALFRED HAYES, Jr., A.B., LL.B..... *Tutor*  
JOHN D. KAPS, LL.B..... *Law Librarian*

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#### From the Faculty of Political Science

JOHN W. BURGESS, Ph.D., LL.D.... *Professor of Political Science and  
Constitutional Law*  
MUNROE SMITH, A.M., J.U.D..... *Professor of Roman Law and  
Comparative Jurisprudence*  
FRANK J. GOODNOW, LL.D..... *Professor of Administrative Law*  
JOHN B. MOORE, LL.D..... *Hamilton Fish Professor of International  
Law and Diplomacy*

### PURPOSES OF THE SCHOOL

The design of the School of Law is to afford a thorough, practical, and scientific education in the principles of the law, as follows:

First.—The COMMON and STATUTE LAW of the UNITED STATES.

Second.—The ENGLISH and AMERICAN SYSTEM of EQUITY JURISDICTION.

Third.—The PUBLIC LAW of the UNITED STATES and EUROPE.

Fourth.—The ROMAN LAW—ANCIENT AND MODERN.

Fifth.—THEORETICAL and COMPARATIVE JURISPRUDENCE.

## COURSE OF INSTRUCTION

### First Year

CONTRACTS—Keener's Cases on Contracts. 4 hours a week. Professor TERRY

CRIMINAL LAW—Beale's Cases on Criminal Law. 2 hours a week.\* Mr. STONE

DOMESTIC RELATIONS AND LAW OF PERSONS—Smith's Cases on Persons. 2 hours a week.†\* Mr. HAYES

EQUITY—Origin and Nature, Bills of Peace, Interpleader, Quia Timet, Removal of Cloud upon Title, Jurisdiction over Torts.—Keener's Cases on Equity, Vol. 1. 3 hours a week.‡ Professor KEENER

PLEADING AND PRACTICE—Perry on Pleading. 2 hours a week. Professor REDFIELD

REAL AND PERSONAL PROPERTY—Tenures, Estates, Nature and Incidents of Ownership, Conveyancing, Landlord and Tenant.—Kirchwey's Readings in Real Property; Gray's Cases on Property, Vol. 3. 2 hours a week. Professor KIRCHWEY

TORTS—Burdick's Cases on Torts; Pollock on Torts. 2 hours a week. Professor BURDICK

AMERICAN CONSTITUTIONAL LAW IN ITS HISTORICAL DEVELOPMENT—2 hours a week.\* Professor BURGESS

### Second Year

AGENCY—Wambaugh's Cases on Agency. 2 hours a week. Professor CANFIELD

BAILMENTS AND CARRIERS—McClain's Cases on Carriers. 2 hours a week. Mr. STONE

EQUITY—Trusts.—Ames's Cases on Trusts. 2 hours a week. Professor KEENER

INSURANCE—Richards on Insurance. 2 hours a week.‡ Mr. STONE

NEGOTIABLE PAPER—Ames's Cases on Bills and Notes. 2 hours a week. Professor BURDICK

PLEADING AND PRACTICE. 2 hours a week. Professor REDFIELD

QUASI-CONTRACTS—Keener's Cases on Quasi-Contracts. 3 hours a week.‡ Professor KEENER

REAL AND PERSONAL PROPERTY—Easements, Covenants affecting

\* These courses, aggregating five hours per week, are elective. The student may take not less than two nor more than three hours of the five.

† First half-year.

‡ Second half-year.

Land, Watercourses, Public Rights, etc.—Gray's Cases on Property, Vols. 2 and 3. 2 hours a week. Professor KIRCHWEY

SALES OF PERSONAL PROPERTY—Burdick's Cases on Sales (2d Ed.); Burdick on Sales (2d Ed.). 2 hours a week. Professor BURDICK

ADMINISTRATIVE LAW—The Legal Control of Officers—Mandamus, Quo Warranto, Certiorari, Habeas Corpus, etc. 2 hours a week. Professor GOODNOW

COMPARATIVE CONSTITUTIONAL LAW. 2 hours a week. Professor BURGESS

INSTITUTES OF ROMAN LAW. 2 hours a week. Professor MUNROE SMITH

### Third Year

BANKRUPTCY—Williston's Cases on Bankruptcy. 2 hours a week.† Mr. HAYES

CORPORATIONS—Keener's Cases on Corporations. 2 hours a week. Professor KEENER

EQUITY—Jurisdiction over Contracts, Account, Equitable Conversion.—Keener's Cases on Equity, Vols. 2 and 3. 2 hours a week. Professor KEENER

EVIDENCE—Thayer's Cases on Evidence. 2 hours a week. Professor CANFIELD

MORTGAGES—Kirchwey's Cases on Mortgage. 2 hours a week.§ Professor KIRCHWEY

PARTNERSHIP—Burdick's Cases on Partnership; Burdick on Partnership. 2 hours a week. Professor BURDICK

PLEADING AND PRACTICE—2 hours a week.† Professor REDFIELD

REAL AND PERSONAL PROPERTY—Conditions, Future Estates, Priorities, Restraints on Alienation, Perpetuities, etc.—Gray's Cases on Property, Vols. 5 and 6. 2 hours a week. Professor KIRCHWEY

SURETYSHIP—Ames's Cases on Suretyship. 2 hours a week.§ Professor BURDICK

TRUSTS AND PERPETUITIES—Under the Revised Statutes of New York. 2 hours a week.† Professor CANFIELD

WILLS AND ADMINISTRATION—Gray's Cases on Property, Vol. 4. 2 hours a week. Professor REDFIELD

AMERICAN CONSTITUTIONAL LAW—Private Rights under the Constitution. 2 hours a week. Professor BURGESS

CONFLICT OF LAWS. 1 hour a week. Professor MOORE

HISTORY OF EUROPEAN LAW. 2 hours a week. Professor MUNROE SMITH

INTERNATIONAL LAW. 2 hours a week. Professor MOORE

MUNICIPAL CORPORATIONS. 2 hours a week.† Professor GOODNOW

SPANISH-AMERICAN LAW. 1 hour a week. Professor MUNROE SMITH

LAW OF TAXATION. 2 hours a week.‡ Professor GOODNOW

† First half-year.

‡ Second half-year.

§ The course on Suretyship is given during the first half-year; the course on Mortgages during the second half-year. These courses cannot be taken separately.

### Practice Courts

Moot Courts, conducted with special reference to the courses in pleading and practice, will constitute a regular feature of the work of the second and third years. They will be under the supervision of Professor REDFIELD

### Requirements for Admission

All applicants for admission to the school must be of good moral character, and must be at least eighteen years of age for admission to the work of the first-year class at its formation, and of a corresponding increase of age for admission to advanced standing.

Graduates of colleges and scientific schools in good standing are admitted without examination. All persons other than such graduates must be eligible for admission to the sophomore class of the College, or present the Academic Diploma of the Regents of the State of New York, or a certificate acceptable to the Regents in lieu thereof.

*Beginning with the academic year 1903-04 no person will be admitted to the school except graduates of colleges and scientific schools in good standing, or persons presenting satisfactory evidence of equivalent training.*

### Advanced Standing

Applicants for admission to advanced standing must produce satisfactory evidence of having spent as much time in some school having a required course of three years leading to the degree of Bachelor of Laws as has been spent in this school by the class to which admission is sought, and must in addition thereto pass satisfactory examinations in all the work previously done by the class to which they seek admission. *No certificate or diploma will be accepted in lieu of these examinations for advanced standing.*

No applicant will be admitted to advanced standing beyond the second year except by special vote of the faculty.

Applicants for admission to advanced standing will be required to produce evidence of having been qualified to enter the school at the formation of the class to which they seek admission. Examinations for advanced standing are held at the end of the academic year and during the week preceding the first Monday in October.

### Special Students

Applicants who do not desire to become candidates for a degree may pursue a special course of study approved by the Dean. Such students will be classified as special students. The requirements for the admission of special students to the school are the same as in the case of candidates for a degree. No one will be admitted to the school to pursue advanced work as a special student who has not passed satisfactory examinations in the contract, equity, and property courses preceding such work in point of time.

Special students must present themselves for examination in each subject selected by them at the first examination held therein, and must pass satisfactory examinations in a majority of the subjects, as a condition of continuing in the school.

### Examinations

Written examinations are held at the end of each academic year on the subjects of that year, and on the subjects of the first and second years during the week preceding the first Monday in October.

No student is admitted to advanced standing who has failed to pass satisfactory examinations in more than four hours of work per week. No student will be admitted to advanced standing as a member of the third-year class who has not at the beginning of his third year passed satisfactory examinations in all the subjects of the first year. Any student who fails in any final examination held at the end of the first and second years, and who desires to remain in the school, must, unless excused by the Dean, present himself for re-examination during the week preceding the first Monday in October. No student failing a third time in any given subject will be allowed to continue in the school.

*No special examinations are given.*

## DEGREES

### Bachelor of Laws

The course of instruction leading to the degree of Bachelor of Laws covers a minimum period of three years, in which there are offered sixty-six hours of instruction per week throughout the year. In the first year are offered sixteen and one-half hours, in the second year twenty-two and one-half hours, and in the third year twenty-seven hours of instruction per week. Courses not taken in the first or the second year may be elected as a part of the work of the following year.

The degree of Bachelor of Laws is conferred only upon students who have passed satisfactory examinations in courses covering a total of forty-two hours per week.

To obtain this degree in three years the student must take courses covering not less than thirteen nor more than fifteen hours per week in any one of the three years. While no student will be allowed to present himself for examination in any one year in subjects covering more than the number of hours so taken, any one desiring to prolong the period of study for the degree of LL.B. beyond three years, will be permitted to reduce thereby the amount of work in any one year necessary for the degree. The Faculty would strongly advise students who have not had an opportunity of thoroughly studying history, economics, and finance, so to prolong their course of study, in order that they may avail themselves of the opportunities offered in the School of Political Science for studying these subjects.

The work selected by a student for a degree in law is subject in every case to the approval of the Dean.

**Master of Laws**

(See page 208)

**Master of Arts**

(See page 203)

**Scholarships**

(See page 40)

**Fees**

(See page 19)

**Law Library**

The law library has been greatly extended and improved, and now consists of about 30,000 volumes, which have been carefully selected to meet the wants of students. It is especially rich in American, English, and British Colonial reports.

The general library of the University, consisting of upwards of 325,000 volumes, contains extensive collections of works relating to international, public, and Roman law.

## REGISTER OF STUDENTS

### THIRD YEAR CLASS

ACHE, PAUL SMITH, C.E., <i>Penn. Milt. College</i> .....	Pittsburg, Pa.
ALSBERG, HENRY GARFIELD, A.B., <i>Columbia</i> .....	(Mhtn) New York City
ANGELL, HOMER DANIEL, A.B., <i>University of Oregon</i> , A.M., <i>Columbia</i> , The Dalles, Ore.	
BARTHOLOMAE, HUGO JAMES.....	(Mhtn) New York City
BELL, WILLIAM BROWN, A.B., <i>Haverford College</i> , A.M., <i>Columbia</i> , (Mhtn) New York City	
BOARDMAN, CLARENCE IDE.....	Great Falls, Mont.
BOEHM, LEWIS COVINGTON, A.B., <i>St. John's College</i> .....	Snow Hill, Md.
BOGUE, MORTON GRISWOLD, A.B., <i>Columbia</i> .....	(Mhtn) New York City
BOYLE, EDWARD MORTIMER.....	(Mhtn) New York City
BRINE, FRANCIS JOSEPH.....	Somerville, Mass.
BUCHLER, WILLIAM PAUL, A.B., <i>Columbia</i> .....	(Mhtn) New York City
BULLOWA, RALPH JAMES M., A.B., <i>N. Y. City College</i> , A.M., <i>Columbia</i>	
	(Mhtn) New York City
CANE, MELVILLE HENRY, A.B., <i>Columbia</i> .....	(Mhtn) New York City
COLE, RUDY.....	Fargo, N. Dak.
CURTIS, HENRY SHREVE.....	Baltimore, Md.
DAIGNAULT, ELPHÉGE JOSEPH, A.B., <i>Boston College</i> .....	Woonsocket, R. I.
DARLINGTON, LIONEL, B.S., <i>Cornell</i> , A.M., <i>Harvard</i> .....	West Chester, Pa.
DAVIS, LEE PARSONS.....	Yonkers, N. Y.
DEAN, MAURICE BESSELL.....	Dalton, Pa.
DEYOE, EDGAR ACKERMAN, A.B., <i>Pennsylvania College</i> .....	Ramsey, N. J.
DIPPEL, JOHN PHILIP.....	Weehawken, N. J.
DOHERTY, GERALD ALOYSIUS.....	(Mhtn) New York City
DOYLE, JOHN BERNARD, A.B., <i>Boston College</i> .....	(Mhtn) New York City
DRESSLER, WILLIAM BERNARD, A.B., <i>Columbia</i> .....	(Mhtn) New York City
DUDEN, HERMAN, Jr., A.B., <i>Columbia</i> .....	(Br) New York City
EDELSTEIN, ISIDORE.....	(Mhtn) New York City
ERNST, BERNARD MORRIS LEE, A.B., <i>Columbia</i> .....	Uniontown, Ala.
ESSER, JOSEPH HENRY, A.B., <i>Columbia</i> .....	Mt. Vernon, N. Y.
ESTEE, ORVILLE DEVERE, A.B., <i>Yale</i> .....	Gloversville, N. Y.
FACKENTHAL, JOSEPH DIEHL, A.B., A.M., <i>Columbia</i> .....	(Bklyn) New York City
FASSETT, LEE.....	Wellsville, N. Y.
FORSCH, ALBERT, A.B., <i>Columbia</i> .....	(Mhtn) New York City
FRANKENTHALER, ALFRED, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
FRIEDENBERG, ALBERT MARX, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
GEARIN, HUGH CORNEILUS.....	Portland, Ore.
GIDDINGS, HENRY STARR, A.B., A.M., <i>Columbia</i> .....	(Mhtn) New York City
GLENN, GARRARD, A.B., <i>University of Georgia</i> .....	Atlanta, Ga.
GOTTLIEB, HARRY NORMAN, A.B., <i>University of Chicago</i> .....	Chicago, Ill.
GREEN, CHARLES TILFORD.....	(Mhtn) New York City
GROSS, ARNOLD.....	(Mhtn) New York City
HAMILTON, EMMET CUTHBERT.....	(Mhtn) New York City
HARDENBERG, STETSON PRATT, A.B., <i>Rutgers</i> .....	New Brunswick, N. J.
HARRISON, JULIAN COLLIER, A.B., <i>Columbia</i> .....	(Bklyn) New York City
HATCHER, CHARLES PHILLIPS.....	Columbia, Tenn.



HAUGHWOUT, JAMES ARD, A.B., <i>Washington and Jefferson</i> .....	Kishacoquillas, Pa.
HOFFMAN, EDWIN.....	(Mhtn) New York City
ITTELMAN, GEORGE HOWARD.....	(Bklyn) New York City
JACKSON, JEROME C., B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
JACKSON, JOHN GILLESPIE, A.B., <i>Columbia</i> .....	Middletown, Conn.
JETTER, CLIFFORD HAWKINS, A.B., <i>Cornell</i> .....	Greenport, N. Y.
JOHNSON, TRISTAM BURGESS.....	(Mhtn) New York City
KEELER, GEORGE BECKWITH, A.B., A.M., <i>Columbia</i> .....	(Bklyn) New York City
KENNAN, RALPH ANTONY.....	Spokane, Wash.
KNAPP, JAMES RINTOUL, A.B., <i>Columbia</i> .....	(Mhtn) New York City
KOERNER, WILLIAM KINNEY.....	Belleville, Ill.
KOHN, ACHILLES HERMAN, A.B., <i>Columbia</i> .....	(Mhtn) New York City
KOHN, WALTER THOMAS, A.B., <i>N. Y. City College, A.M., Columbia</i> (Mhtn) New York City	
KRAMER, JACOB JEROME.....	Johnstown, Pa.
LAUTERSTEIN, LEON.....	(Mhtn) New York City
LEA, LUKE, A.B., A.M., <i>University of the South</i> .....	(Mhtn) New York City
LEA, OVERTON, JR., A.B., <i>University of the South</i> .....	Nashville, Tenn.
LESINSKY, LEO, A.B., <i>Columbia</i> .....	(Mhtn) New York City
LEVIS, ROBERT PERCY, A.B., <i>University of Rochester</i> .....	Rochester, N. Y.
LEVY, SAMUEL SAMPTER, A.B., <i>Yale, A.M., Columbia</i> .....	(Mhtn) New York City
LINDHEIM, NORVIN RUDOLF, A.B., <i>Johns Hopkins</i> .....	(Mhtn) New York City
LOCKMAN, FREDERIC IRVING, A.B., <i>Yale</i> .....	(Mhtn) New York City
LOGAN, HOLLISTER, A.B., <i>Yale</i> .....	(Mhtn) New York City
LOWENSTEIN, OSCAR, A.B., A.M., <i>Columbia</i> .....	(Mhtn) New York City
MCCORMICK, ROBERT HALL, JR., A.B., <i>Yale</i> .....	(Mhtn) New York City
McKEE, DOUGLASS.....	(Mhtn) New York City
McPHEE, RAYMOND JOSEPH.....	Denver, Colo.
MADIGAN, JAMES CALLANAN, A.B., <i>N. Y. City College, A.M., Columbia</i> (Mhtn) New York City	
MARSH, ROBERT MCCURDY, A.B., A.M., <i>Harvard</i> .....	Paterson, N. J.
MARTIN, HENRY LEWIS, JR., A.B., <i>Washington and Lee</i> .....	Midway, Ky.
MELLOR, FRED.....	(Mhtn) New York City
MERSEREAU, HENRY CARL.....	(Mhtn) New York City
MICHAELIS, ARNOLD, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
MILLER, HENRY COOK, A.B., <i>Hamilton</i> .....	(Mhtn) New York City
MILLER, JOHN NORRIS, A.B., <i>Princeton</i> .....	Washington, D. C.
MILLER, RUTGER BLEECKER, A.B., <i>Yale</i> .....	(Mhtn) New York City
MOSES, HENRY LEO, A.B., <i>Yale</i> .....	Scranton, Pa.
MOULTHROP, JOHN ROBERT, B.L., <i>University of California</i> .....	San Francisco, Cal.
NASH, STEPHEN PAYN, A.B., <i>Columbia</i> .....	(Mhtn) New York City
NOVA, ALGERON ISAACS.....	(Mhtn) New York City
O'BRIEN, THOMAS EDWARD, A.B., A.M., <i>Columbia</i> .....	(Bklyn) New York City
O'NEIL, FRANK SMITH, A.B., <i>Canisius College</i> .....	Binghamton, N. Y.
O'NEIL, JOSEPH SIMON, A.B., <i>Canisius College</i> .....	Binghamton, N. Y.
OGDEN, CHARLES JONES, A.B., <i>Columbia</i> .....	(Mhtn) New York City
PALMER, ROLAND SWIFT, A.B., <i>Yale</i> .....	Amenia, N. Y.
PARSONS, JEFFREY, A.B., <i>Columbia</i> .....	Hempstead, N. Y.
PATTERSON, ARTHUR COXE, A.B., <i>Williams</i> .....	(Mhtn) New York City
PATTERSON, EDMUND DEWITT, JR., A.B., <i>Vanderbilt</i> .....	Savannah, Tenn.
PETTIT, WILLIAM SOPER.....	Far Rockaway, L. I.
PHEIL, JOHN GRANT, A.B., <i>Baldwin University</i> .....	(Mhtn) New York City
PHILIPP, PHILIP BERNARD, A.B., <i>Harvard</i> .....	(Mhtn) New York City
PILCHER, STUART CAROTHERS.....	Nashville, Tenn.
PITKIN, HARRY WALTON, A.B., <i>University of Wooster</i> .....	Mt. Vernon, O.
PULLIAM, CHARLES LE COUNT, A.B., <i>Wabash College</i> .....	Terre Haute, Ind.
REDINGTON, EDWARD JOHN, A.B., <i>Yale</i> .....	Syracuse, N. Y.
RENDELL, GEORGE EBEN.....	(Mhtn) New York City

RICH, LEO HOWARD.....	(Bklyn) New York City
ROYALL, JOHN RALPH.....	Lebanon, Conn.
ROYSE, SAMUEL DURHAM, A.B., <i>Amherst</i> .....	Terre Haute, Ind.
RYAN, PETER FRANK, B.S., <i>Villanova College</i> .....	North Adams, Mass.
SHENKOWITZ, WARREN AUGUSTUS.....	Dubuque, Iowa
SHEPARD, WOOLSEY ADAMS, A.B., <i>Columbia</i> .....	(Mhtn) New York City
SHIDLOVSKY, JACOB.....	(Mhtn) New York City
SHOAF, FREDERICK BARNETT, Ph.B., <i>University of Michigan</i> .....	Fort Wayne, Ind.
SHWITZER, SAMUEL DAVID.....	(Mhtn) New York City
SLADKUS, SOLOMON EDMUND.....	(Mhtn) New York City
SLOANE, JAMES RENWICK, A.B., <i>Princeton</i> .....	(Mhtn) New York City
SOLOMON, LOUIS ARLINGTON, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
SPENSER, EDWIN MARTIN.....	St. Joseph, Mo.
STEINBOCK, HENRY AUSTIN.....	(Mhtn) New York City
STERN, WALTER THOMAS, A.B., <i>Yale</i> .....	(Mhtn) New York City
STICKNEY, HENRY AUSTIN, A.B., <i>Harvard</i> .....	(Mhtn) New York City
SULLIVAN, JAMES CHARLES.....	Butte, Mont.
SYMES, JOHN FOSTER, Ph.B., <i>Yale</i> .....	Denver, Col.
TATUM, EDWARD HUBBERT, A.B., <i>Yale</i> .....	(Mhtn) New York City
THOMAS, CLARENCE LOT, A.B., <i>Leland Stanford, Jr.</i> .....	Storm Lake, Iowa
VETSBURG, KARL MAX.....	St. Louis, Mo.
VICTOR, ROYALL CHARLES, A.B., <i>Leland Stanford, Jr., A.M., Columbia</i> (Mhtn) New York City	
WALMSLEY, HARDIE BARR.....	(Mhtn) New York City
WELCH, ALOYSIUS JOSEPH, A.B., <i>Santa Clara College</i> .....	San Francisco, Cal.
WELCH, WALTER FREDERICK, A.B., <i>Tufts College</i> .....	Stoneham, Mass.
WHEELER, ERNEST EDWARD, A.B., <i>Harvard</i> .....	(Mhtn) New York City
WILLIAMS, LOUIS OREN.....	Pittsburg, Pa.
WILLIAMSON, PLINY WILSON, A.B., <i>Oberlin</i> .....	Dayton, O.
WISE, HENRY MORRIS, A.B., <i>Columbia</i> .....	(Mhtn) New York City
Third Year Class.....	129

## SECOND YEAR CLASS

ADAMS, HARRY CHARLES.....	(Mhtn) New York City
ADAMS, WILLIAM HUBERT, A.B., <i>St. Francis Xavier, A.M., Columbia</i> (Mhtn) New York City	
AMSEL, CHARLES SIMPSON.....	(Mhtn) New York City
ANDERSON, HARRY BENNETT.....	Memphis, Tenn.
BABCOCK, HENRY HUBERT, A.B., <i>Yale</i> .....	Watertown, N. Y.
BAMMAN, FRANKLIN GEORGE, A.B., <i>Princeton</i> .....	Asbury Park, N. J.
BARBER, WILLIAM COOPER.....	(R) New York City
BARON, SAUL JEROME, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
BELDEN, MEAD VAN ZILE, A.B., <i>Princeton</i> .....	Syracuse, N. Y.
BERLINICKE, HARRY ROBERT.....	(Mhtn) New York City
BLOCH, HENRY.....	(Mhtn) New York City
BLUMENTHAL, HENRY ARTHUR.....	(Mhtn) New York City
BORDWELL, WALTER PERCY, B.L., <i>University of California</i> .....	(Mhtn) New York City
BOYBSEN, HJALMAR HJARTH, 2d, A. B., <i>Columbia</i> .....	(Mhtn) New York City
BRADLEY, CHRISTOPHER MASON, A.B., <i>Leland Stanford, Jr.</i> .....	(Mhtn) New York City
BRADY, JOHN EDSON.....	Norwich, Conn.
BROWN, EDWARD DAVID, A.B., <i>Yale</i> .....	Albany, Ga.
BRUCE, EDWARD BRIGHT, A.B., <i>Columbia</i> .....	Yonkers, N. Y.
BRUNER, EDWARD THOMAS.....	(Mhtn) New York City
BÜHLER, JOSEPH STETTENHEIM, A.B., <i>Columbia</i> .....	Columbus, Ga.
BURROWS, FRANK WILLIAM, B.S., <i>Amherst</i> .....	Andover, N. Y.
CARDOZO, MICHAEL HART, A.B., <i>Columbia</i> .....	(Mhtn) New York City
CHAFFEE, ROLLO NICHOLS.....	Amenia, N. Y.
CHAMBERS, CHARLES, A.B., <i>Amherst</i> .....	(Bklyn) New York City

CLARK, FRANKLIN MORTIMER, A.B., <i>Columbia</i> .....	(Mhtn) New York City
COLETT, FRANCIS, A.B., <i>Mount Angel College</i> .....	(Mhtn) New York City
COLLIS, CHARLES.....	(Mhtn) New York City
CONE, NEWELL KINGSBURY.....	Batavia, N. Y.
COUGHLAN, JEREMIAH JAMES, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
DE NYSE, RULIF VAN NUYS.....	(Bklyn) New York City
DONNELLAN, GEORGE LAWRENCE, A.B., <i>Columbia</i> .....	(Mhtn) New York City
DONVAN, BENJAMIN FRANKLIN.....	(Mhtn) New York City
DORR, GOLDTHWAITE HIGGINSON, A.B., <i>Harvard</i> .....	(Mhtn) New York City
DOTTENHEIM, HENRY SIMON, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
DUMAS, JAMES PINCKNEY, A.B., <i>Roanoke</i> .....	Van Alstyne, Tex.
EARLE, ENOCH WALTER.....	(Mhtn) New York City
EARLEY, MARTIN JOSEPH, JR.....	(Mhtn) New York City
ERB, WILLIAM M.....	(Mhtn) New York City
ERNST, ARTHUR OGDEN, A.B., <i>Columbia</i> .....	(Mhtn) New York City
FARLEY, EDWARD VINCENT, A.B., <i>St. Francis Xavier</i> .....	(Bklyn) New York City
FASOLA, JOHN BAPTIST.....	(Mhtn) New York City
FORSYTH, JAMES PORTER.....	(Mhtn) New York City
FOX, DEWITT.....	(Mhtn) New York City
FREEMAN, HENRY W.....	(Mhtn) New York City
FULLER, FREDERIC JAMES, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
GAASS, GEORGE GERARD, Ph.B., <i>Central University</i> .....	Pella, Iowa
GEORGE, DAVID GWILIM, A.B., A.M., <i>Hamilton</i> .....	Rome, N. Y.
GERNERD, FREDERICK BENJAMIN, A.B., <i>Franklin and Marshall</i> .....	Allentown, Pa.
GIBSON, CLAUDE WILLIAM, B.S., <i>Idaho State University</i> .....	Boise, Idaho
GLENNEY, WALTER LESTER, A.B., <i>Columbia</i> .....	Plainfield, N. J.
GOLDIE, WILLIAM VALENTINE.....	New London, Conn.
GORDON, HARRY ALLEN, A.B., <i>N. Y. City College</i> , A.M., <i>Columbia</i>	(Mhtn) New York City
GOSSETT, MORRIS ELIAS, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
GRASSE, WILLIAM HENRY.....	(Mhtn) New York City
GROSSMAN, MORRIS.....	(Mhtn) New York City
GROSVENOR, EDWIN PRESCOTT, A.B., A.M., <i>Amherst</i> .....	Amherst, Mass.
GUMM, HARRIS HAROLD, A.B., <i>Columbia</i> .....	(Mhtn) New York City
GUTGSELL, ADOLPH EUGENE, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
HAHN, ROBERT HAMILTON.....	Augusta, Ga.
HALPIN, JOHN JOSEPH, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
HALSTEAD, KENNETH BURT, A.B., <i>Columbia</i> .....	(Bklyn) New York City
HAMILTON, FRANCIS BEACOM.....	Johnstown, Pa.
HEAD, HAYDEN WILSON, B.S., <i>Austin College</i> .....	Sherman, Tex.
HERCHEY, HAROLD HOWARD.....	(Mhtn) New York City
HERZ, HARRY.....	(Mhtn) New York City
HILL, PHILIP SAMUEL.....	North Tonawanda, N. Y.
HIPPLE, JOHN ALFRED.....	Marietta, Pa.
HIRSCH, HAROLD, A.B., <i>University of Georgia</i> .....	Atlanta, Ga.
HULL, FRANK IRVING.....	Mt. Vernon, N. Y.
HUNT, FREDERICK BURTON, A.B., <i>Bucknell University</i> .....	Clark's Summit, Pa.
HUTTER, ARTHUR.....	(Mhtn) New York City
KAHN, ARTHUR CHARLES, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
KAHRS, JOHN DANIEL, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
KAUFMAN, HENRY HOLZHEIMER.....	(Mhtn) New York City
KELLOGG, FREDERICK SNOW, A.B., <i>Yale</i> .....	(Bklyn) New York City
KERR, CLARENCE DILWORTH, A.B., <i>Princeton</i> .....	Englewood, N. J.
KIRKPATRICK, FRANK FELIX, A.B., <i>Christian Brothers' College</i> .....	(Mhtn) New York City
LAROCHE, PHILIP BEVAN, JR.....	(Mhtn) New York City
LEDERER, ALISON MICHAEL, A.B., <i>Columbia</i> .....	(Mhtn) New York City
LEE, JOSEPH DAY, A.B., A.M., <i>Richmond College</i> .....	(Mhtn) New York City
LEWY, HARRY MIER, A.B., <i>Columbia</i> .....	Galveston, Tex.

LIEB, HENRY, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
LINDENBERGER, JACOB HOPEWELL, LL.B., <i>University of Louisville</i> ....	Louisville, Ky.
LIPPE, VINCENT STUYVESANT.....	(Mhtn) New York City
MCLAUGHLIN, WARREN JOHN, A.B., <i>Hamilton</i> .....	Lima, O.
MAHAN, LYLE EVANS, A.B., <i>Columbia</i> .....	(Mhtn) New York City
MARX, HENRY, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
MELNIKER, AARON.....	Bayonne, N. J.
MERCER, GEORGE, JR.....	(Mhtn) New York City
MEYER, GEORGE A., B.S., <i>Freemont Normal</i> .....	Humphrey, Neb.
MEYER, RUTHERFORD BIRCHARD, A.B., <i>Columbia</i> .....	(Br) New York City.
MOORE, BERNARD V.....	Tipton, Ind.
MOORE, HENRY, JR.....	Texarkana, Ark.
MORFORD, HAROLD C.....	Long Branch, N. J.
MORRIS, ALBERT HENRY.....	(Bklyn) New York City
PARHAM, FRANK EARLE, A.B., <i>Wake Forest College</i> .....	Oxford, N. C.
PHILLIPS, JOHN FRANK, A.B., <i>Amherst</i> .....	(Bklyn) New York City
RAY, THOMAS HASSETT, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
REARDON, BERNARD ELWOOD, A.B., <i>St. Francis Xavier</i> .....	Yonkers, N. Y.
REARICK, ALLAN C., A.B., <i>Knox College</i> .....	(Mhtn) New York City
ROACH, LORIN J., Ph.B., <i>University of Iowa</i> .....	Rock Rapids, Iowa
ROBBINS, CHARLES BURTON, A.B., <i>University of Nebraska</i> .....	Lincoln, Neb.
ROOD, WILLIAM HERVY, A.B., <i>Yale</i> .....	Princeton, Ill.
ROSE, CHARLES RESEAU.....	South Amboy, N. J.
ROSEN, LEWIS ALBERT.....	(Mhtn) New York City
RUEF, JOHN WILLIAM, Ph.B., <i>Lafayette</i> .....	(Mhtn) New York City
SAMPLE, SAMUEL JOHN, A.B., <i>Ottawa University</i> .....	Eureka, Kan.
SCHWARTZ, MILTON HARRY, B.L., <i>University of California</i> .....	Oakland, Cal.
SEAMAN, FREDERICK CROMWELL.....	(Bklyn) New York City
SELIGSBERG, WALTER NATHAN.....	(Mhtn) New York City
SMITH, ELWOOD CRONON.....	Turner, N. Y.
SMITH, HOWARD ALEXANDER, A.B., <i>Princeton</i> .....	(Mhtn) New York City
SMITH, JOHN BOYCE, JR., A.B., A.M., <i>Columbia</i> .....	(Mhtn) New York City
SMITH, JOHN HAVILAND.....	Port Chester, N. Y.
SMITH, RICHARD SHORE, A.B., <i>University of Oregon</i> .....	Phoenix, Ariz.
SPICER, CHARLES CLYDE, A.B., <i>Columbia</i> .....	Colorado Springs, Colo.
SPITALSKY, NATHAN LION.....	(Mhtn) New York City
SQUIRES, LEWIS, A.B., <i>Williams</i> .....	(Mhtn) New York City
STOWELL, EDWARD ESTY, A.B., <i>Hamilton</i> .....	Ithaca, N. Y.
STRAUS, EMANUEL EMORY, A.B., <i>Yale</i> .....	Louisville, Ky.
STREBEIGH, ROBERT LEFFERTS, A.B., <i>Columbia</i> .....	(Mhtn) New York City
TABER, ERROLL JAMES LIVINGSTON.....	Elko, Nev.
TIMMERMEISTER, KARL.....	Wapakoneta, O.
TOMLINSON, JOHN CANFIELD, JR., A.B., <i>Yale</i> .....	(Mhtn) New York City
TURNER, GEORGE CHITTENDEN.....	(Bklyn) New York City
VOGEL, EARL, B.S., <i>Illinois College</i> .....	Jacksonville, Ill.
WAGNER, WILLIAM ANDREW.....	(Mhtn) New York City
WALLIN, WILLIAM JOHN, A.B., <i>N. Y. University</i> .....	Yonkers, N. Y.
WALSH, JOHN JOSEPH, JR., A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
WETHERHORN, MITCHELL.....	(Mhtn) New York City
WHEAT, BENJAMIN PATTERSON, Ph.B., <i>Cornell College</i> .....	(Mhtn) New York City
WINTERS, GEORGE PAYNE, A.B., <i>Cornell University</i> .....	Deland, Fla.
WITHROW, WILLIAM EDGAR, A.B., <i>University of Colorado</i> .....	Central City, Colo.
Second Year Class.....	133

## FIRST YEAR CLASS

ABBOTT, GARDNER, A.B., <i>Yale</i> .....	(Mhtn) New York City
ABRAHAM, BENJAMIN, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
AGENBROED, ALBERT ALONZO, A.B., A.M., <i>Oberlin</i> .....	Tippecanoe City, O.

ALBINIKOFF, ALEXANDER SANDER.....	(Mhtn) New York City
ALTERMAN, LEWIS BENNETT.....	(Mhtn) New York City
ANDERSON, HALCOTT, A.B., <i>University of North Carolina</i> .....	Pensacola, Fla.
AULLS, LYMAN D.....	Hammondsport, N. Y.
AUSTIN, HARRIE SPRONG, A.B., <i>Holy Cross College</i> .....	(Mhtn) New York City
BACH, MILTON JACOB, B.S., <i>Harvard</i> .....	(Mhtn) New York City
BALDWIN, JOHN PAUL, A.B., <i>University of Kansas</i> .....	Eureka, Kan.
BALLENBERG, MILTON.....	(Mhtn) New York City
BANKS, HOWARD MELLEN.....	Port Chester, N. Y.
BARRETT, RANDOLPH COB, A.B., <i>Williams</i> .....	Bloomfield, N. J.
BATES, KAHL CLEMENT.....	(Bklyn) New York City
BAUER, HENRY OSWALD A.....	Piermont, N. Y.
BEALE, PHELON, LL.B., <i>University of the South</i> .....	Montgomery, Ala.
BEATTY, EARLE LYNWOOD, A.B., A.M., <i>Kentucky University</i> .....	Lexington, Ky.
BEHRENS, BERNHARD SIDNEY, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
BERNHIM, SYDNEY.....	(Mhtn) New York City
BIRMINGHAM, WILLIAM GEORGE.....	Liberty, N. Y.
BOORAEM, ROLFE ROOSEVELT.....	Newark, N. J.
BORNEMAN, CHARLES JOSEPH.....	Newark, N. J.
BRADFORD, JAMES DANFORTH.....	Massena, N. Y.
BRADLEY, ALLAN BEACH ARNOLD, A.B., <i>Columbia</i> .....	(Mhtn) New York City
BROOKS, ALEXANDER.....	Santiago, Cuba
BROUSE, EDWIN WALTER, A.B., <i>Oberlin</i> .....	Akron, O.
BROWN, HENRY LINN.....	(Mhtn) New York City
BUDINGTON, ERNEST GUNTON, A.B., <i>Columbia</i> .....	(Bklyn) New York City
BURNQUIST, JOSEPH ALFRED ARNER, A.B., <i>Carleton College</i> .....	Dayton, Ia.
CALLAHAN, GEORGE JOHN.....	Nyack, N. Y.
CAPONIGRI, JOSEPH FERRUTUM, A.B., <i>Manhattan College</i> .....	(Mhtn) New York City
CARTER, JARVIS POMEROY, A.B., <i>Columbia</i> .....	(Mhtn) New York City
CHARD, STANDISH, A.B., <i>Amherst</i> .....	(Mhtn) New York City
CLOSE, EDWARD BENNETT.....	Yonkers, N. Y.
COHEN, ARTHUR JOSEPH.....	(Mhtn) New York City
COLLYER, HOMER LUSK, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
CONWELL, EDWARD VINSON.....	(Mhtn) New York City
COOK, WALTER, JR., A.B., <i>Harvard</i> .....	(Mhtn) New York City
COWEN, HARRY GABRIEL, A.B., <i>Columbia</i> .....	(Mhtn) New York City
CRAWFORD, WILLIAM KAY, B.L., <i>University of California</i> .....	Los Angeles, Cal.
CREEVEY, WILLIAM STICKNEY, A.B., <i>Yale</i> .....	(Bklyn) New York City
CUMMINGS, WILBUR LOVE, A.B., <i>Kenyon College</i> .....	Springfield, O.
DAVIS, ARTHUR LOUIS.....	(Mhtn) New York City
DAVIS, EDWARD LE ROY.....	Orange, N. J.
DEWEESE, FRED MILO, A.B., <i>University of Nebraska</i> .....	Lincoln, Neb.
DICKINSON, HOWARD COCKS, A.B., <i>Harvard</i> .....	(Mhtn) New York City
DIVORSKY, HAROLD PERCY, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
DONNELLY, JOHN.....	(Bklyn) New York City
DOYLE, CHARLES AUGUSTINE, A.B., <i>Manhattan College</i> .....	(Bklyn) New York City
DUELL, WILLIAM COMSTOCK.....	Tarrytown, N. Y.
DUNHAM, FREDERIC GIBBONS, A.B., <i>Cornell</i> .....	Buffalo, N. Y.
DURHAM, KNOWLTON, A.B., A.M., <i>Columbia</i> .....	(Mhtn) New York City
EPFINGER, JACOB JOHN, B.L., <i>University of California</i> .....	San Francisco, Cal.
FINEGAN, JAMES EMMET, Ph.B., <i>Union College</i> .....	Schenectady, N. Y.
FINNEY, CHARLES ALEXANDER.....	Bradford, Pa.
FORD, CHARLES MASTIN.....	Huntsville, Ala.
FORD, F. GUALDO.....	Morristown, N. J.
FOSS, FRANK HALSEY, A.B., <i>Trinity College</i> .....	Norwich, Conn.
FULLER, HERBERT LEE, Ph.B., <i>Union College</i> .....	Watertown, N. Y.
GAST, ROBERT SHAEFFER, A.B., <i>Yale</i> .....	Pueblo, Cal.
GAYLE, EDWIN FRANKLIN, A.B., <i>Louisiana State University</i> .....	Legouier, La.

- GILLETTE, ALBERT COOLEY, Ph.B., *Illinois Wesleyan University*.... Rossburg, N. Y.  
 GOELET, ROBERT WALTON, A.B., *Harvard*..... Newport, R. I.  
 GOLDFARB, PHILIP..... Paterson, N. J.  
 GOLDSMITH, OLIVER LEWIS..... New London, Conn.  
 GOODMAN, EMIL MAXWELL..... Glen Cove, N. Y.  
 HAMAGUCHI, ROKUNOSUKE..... Tokio, Japan.  
 HARDMAN, MAX..... Seattle, Wash.  
 HARRINGTON, RICHARD VINCENT, A.B., *St. John's College*..... (Mhtn) New York City  
 HART, TOBIAS VAN HORN, A.B., *Northwestern University*..... Knoxville, Ia.  
 HAYS, ARTHUR GARFIELD, A.B., *Columbia*..... (Mhtn) New York City  
 HINCKS, ROBERT BERESFORD, A.B., *Columbia*..... Long Branch, N. J.  
 HOFFMAN, MILTON, A.B., *N. Y. City College*..... (Mhtn) New York City  
 HOGUET, RAMSAY..... (Mhtn) New York City  
 HOWES, HENRY WRIGHT..... (Mhtn) New York City  
 HUFFMAN, EUGENE BARNEY, A.B., *Denison University*..... Dayton, O.  
 INTERMANN, HENRY CHRISTIAN, B.S., *N. Y. City College*..... (Br) New York City  
 JARMULOWSKY, ADOLPH..... (Mhtn) New York City  
 JOHNSON, JOSEPH HORACE, Ph.B., *Central University*..... Bussey, Ia.  
 KAUFMANN, CHARLES, A.B., *N. Y. City College*..... (Mhtn) New York City  
 KAUFMANN, SIDNEY WALTER..... (Mhtn) New York City  
 KELLOGG, JAMES YOUNG CORY..... Seattle, Wash.  
 KENEMEYER, WILLIAM HENRY..... (Bklyn) New York City  
 KENNEY, ALEXANDER LAWRENCE..... Dansville, N. Y.  
 KIERNAN, CORTLAND A., A.B., *Georgetown College*..... Sag Harbor, N. Y.  
 KOUWENHOVEN, HARRY WILLIAMSON..... (Q) New York City  
 LANE, CHARLES JAMES, B.S., *N. Y. City College*..... (Mhtn) New York City  
 LAWRENCE, CLAY, B.S., *Dakota State College of Agriculture and Mechanic Arts*  
     Deadwood, S. Dak.  
 LEFEVRE, FRANCIS EDWARD..... (Mhtn) New York City  
 LEVY, JACOB..... (Mhtn) New York City  
 LEWIS, HARRY BLAINE..... Syracuse, N. Y.  
 LEWIS, MILES WALKER, A. B., *University of Georgia*..... Greenvboro, Ga.  
 LICHTIG, ARNOLD..... (Mhtn) New York City  
 LITTELL, ROBERT JONES, A.B., *Columbia*..... Summit, N. J.  
 LOEW, CHARLES EDWARD, B. és Let. Sci., *University of Paris*..... New Suffolk, N. Y.  
 LOW, ETHELBERT IDE, A.B., *Yale*..... (Mhtn) New York City  
 MCANERNY, GEORGE..... (Mhtn) New York City  
 MCBRIDE, JOHN JAY, A.B., *Manhattan College*..... (Mhtn) New York City  
 MCCRAY, CLAUD HENRY..... Clymer, N. Y.  
 MCGEE, LEONARD..... (Bklyn) New York City  
 MACKAYE, BENTON, A.B., *Harvard*..... (Mhtn) New York City  
 MANGAN, JAMES MICHAEL..... Binghamton, N. Y.  
 MARTIN, NELSON EUGENE..... (Mhtn) New York City  
 MATTHEWS, WILLIAM McLANE, A.B., *Emory and Henry College*..... Duncans Mills, Va.  
 MILLER, CHARLES DUNCAN, A.B., *Yale*..... (Mhtn) New York City  
 MOORE, J. MERRICK, LL.B., *University of Arkansas*..... Little Rock, Ark.  
 MOORE, ROBERT L..... Walla Walla, Wash.  
 NEARY, FRANK WATKINS, A.B., *Union College*..... Cohoes, N. Y.  
 NOHOWEC, FRANK PIERCE..... (Mhtn) New York City  
 NOVOTNY, CLARENCE JOHN, Ph.B., *Yankton College*..... Yankton, S. Dak.  
 OTTER, WILLIAM WILLS, A.B., *Harvard*..... Louisville, Ky.  
 PALMA, JOSÉ ESTRADA..... Havana, Cuba  
 PALMER, AMOS DAKE..... Rochester, N. Y.  
 PALMER, ARTHUR WELLINGTON..... (Bklyn) New York City  
 PATTERSON, ARCHIBALD McDUGAL, A.B., *Vanderbilt*..... Savannah, Tenn.  
 PECKHAM, REUBEN, B.L., *Dartmouth*..... Troy, N. Y.  
 PIERCE, HOWARD WEIDER, A.B., *Yale*..... New Brighton, Penn.  
 PINCUS, EMILE, B.S., *N. Y. City College*..... (Mhtn) New York City

PRENSKY, JOSEPH MOSES.....	(Bklyn) New York City
PRITCHARD, WILLIAM HENRY, A.B., <i>Oberlin</i> .....	Kane, Pa.
PROCTOR, DAVID MILTON, A.B., <i>William Jewell College</i> .....	Monroe City, Mo.
RAY, JOSEPH GORDON, Ph.B., <i>Tufts</i> .....	Unionville, Mass.
REYNOLDS, HENRY SUYDAM, A.B., <i>Yale</i> .....	(Mhtn) New York City
RICHARDSON, RUFUS JOHNSON.....	Batavia, N. Y.
ROGERS, SAUL EDWIN, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
ROWAN, EDMUND ALOYSIUS, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
ROWE, HOWARD MEAD.....	Bay Shore, N. Y.
ST. JOHN, THEODORE RAYMOND, A.B., <i>Columbia</i> .....	Centre Brunswick, N. Y.
SALLEY, EDWARD MICHAEL.....	Port Jervis, N. Y.
SANBORN, ORVILLE CARFIELD, A.B., <i>Oberlin</i> .....	Chenosa, Ill.
SCHEY, JACOB S., Ph.B., <i>University of Colorado</i> .....	Longmont, Colo.
SCHULDENFREI, LEWIS.....	Atlantic City, N. J.
SCHUSTER, EDWARD, A.B., <i>Columbia</i> .....	(Mhtn) New York City
SCHWAB, FRANCIS CHARLES, A.B., <i>Notre Dame University</i> .....	Altoona, Pa.
SCHWAB, ROBERT.....	Glen Cove, N. Y.
SCHWARZ, RALPH JACOB, A.B., <i>Tulane University</i> .....	New Orleans, La.
SCHWARZMAN, IRWIN.....	(Mhtn) New York City
SCHWEGLER, FREDERICK HENRY.....	(Mhtn) New York City
SENDER, CHARLES S.....	(Mhtn) New York City
SHEEHY, JOHN EDWARD, B.S., <i>St. John's College</i> .....	(Mhtn) New York City
SHUART, HARRY ACKERMAN, Ph.B., <i>Yale</i> .....	Ramsey, N. J.
SINCERBEAUX, FRANK HEUSTIS, A.B., <i>Yale</i> .....	Moravia, N. Y.
SITTENFIELD, MILTON MARCUS.....	Elmira, N. Y.
SMITH, CHARLES BLANCHARD.....	(Mhtn) New York City
SMITH, CHARLES LOTHROP.....	Hyannis, Mass.
SMITH, HERBERT WILLIAM, A.B., <i>Yale</i> .....	North Haven, Conn.
SPENCER, JOSEPH WHITTLESEY, A.B., <i>Columbia</i> .....	(Mhtn) New York City
STANTON, GEORGE FREDERICK.....	(Mhtn) New York City
STEELE, PORTER, A.B., <i>Yale</i> .....	(Bklyn) New York City
STEINER, MAURICE, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
STERN, DAVID, Ph.B., <i>University of North Carolina</i> .....	Scotland Neck, N. C.
STIEFEL, FREDERICK RUDOLF ALEXANDER.....	(Mhtn) New York City
STURTEVANT, HORACE RICHMOND, A.B., <i>Columbia</i> .....	(Mhtn) New York City
SULLIVAN, FRANCIS JOSEPH ALOYSIUS, A.B., <i>St. Francis Xavier College</i>	(Bklyn) New York City
SULLIVAN, MORTIMER ALOYSIUS.....	Newport, R. I.
TE POEL, LOUIS JOHN, A.B., <i>Fremont Normal College</i> .....	Prague, Neb.
TEPPER, EMANUEL.....	(Mhtn) New York City
TILLINGHAST, RICHARD BARBER, A.B., <i>Yale</i> .....	(Mhtn) New York City
TINKER, EDWARD LAROCQUE, A.B., <i>Columbia</i> .....	(Mhtn) New York City
TOLBERT, WARD VAN DEATOOF, A.B., <i>University of Rochester</i> .....	Watkins, N. Y.
TREVOR, JOHN BOND, A.B., <i>Harvard</i> .....	(Mhtn) New York City
TRUAX, HARRY.....	Long Branch, N. J.
TYLER, BARRETT PRETTYMAN, A.B., <i>Randolph Macon College</i> .....	Fredericksburg, Va.
TYLER, ERNEST WILLIAM.....	(Bklyn) New York City
VAIL, ROBERT WILLIAM.....	(Mhtn) New York City
WALDEMAR, CARL WEHE, B.L., <i>University of Wisconsin</i> .....	Milwaukee, Wis.
WALKER, AARON STOCKHOLM BALDWIN.....	Guttenberg, N. J.
WALLACE, JAMES GARRETT, JR.....	(Mhtn) New York City
WALLACH, SAMUEL WILLIAM.....	(Mhtn) New York City
WATSON, FORBES.....	Cambridge, Mass.
WEATHERS, NIEL ALEXANDER, B.S., <i>Amherst</i> .....	Ocala, Fla.
WECHSLER, JOSEPH ZACHARAY, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
WEINSTEIN, SAMUEL.....	(Bklyn) New York City
WELCH, PAUL ROSS.....	Westfield, N. Y.
WESTERVELT, WARNER WESLEY, JR.....	Woodcliff, N. J.

WILLIAMS, HARRY GAYLE.....	Norfolk, Va.
WILLING, MARK SKINNER, A.B., <i>Yale</i> .....	Chicago, Ill.
WOLFF, ALFRED JULIUS.....	(Mhtn) New York City
WOLFF, JACOB, Ph.B., <i>New York University</i> .....	Yonkers, N. Y.
WYLIE, JOHN PARR, A.B., <i>Columbia</i> .....	(Mhtn) New York City
First Year Class.....	180

## SPECIAL STUDENTS

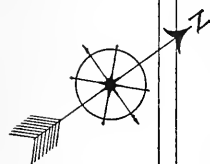
ABE, KICHITARO.....	Notagawa, Omi, Ja.
BEECHER, MORRIS MEYER.....	(Mhtn) New York City
DANA, CHARLES ANDERSON, A.B., <i>Columbia</i> .....	(Mhtn) New York City
DAVIS, JOHN.....	(Bklyn) New York City
DICKSON, STARR KING.....	Westfield, N. Y.
DOLLIN, EDGAR NORMAN.....	(Mhtn) New York City
DONNELLY, JOHN JOSEPH.....	Mattawan, N. Y.
GREGG, JAMES GREGORY, LL.B., <i>Cornell</i> .....	(Mhtn) New York City
HARE, JOHN JOSEPH, B.L., <i>Hobart College</i> .....	(Mhtn) New York City
HERCHÉ, HAROLD HOWARD.....	(Mhtn) New York City
HOUCK, GEORGE, JR., LL.B., <i>Missouri University</i> .....	Bloomfield, Mo.
JOHNSON, JOHN ANDREWS, A.B., <i>University of Nebraska</i> .....	Dakota City, Neb.
KALISKY, ABRAHAM.....	(Mhtn) New York City
KRAUSE, JOHN JACOB.....	Chicago, Ill.
McBAINE, JAMES PATTERSON, LL.B., <i>Missouri University</i> .....	Columbia, Mo.
McKEE, DOUGLAS.....	(Mhtn) New York City
MOORE, JAMES BLY, A.B., <i>Columbia</i> .....	Pearl River, N. Y.
NAGLE, GEORGE ALBERT.....	Hollis, N. Y.
NELSON, WILLIAM SHANNON.....	Columbia, S. C.
PARKER, ASHTON.....	(Mhtn) New York City
RUCKER, ALVAH JOHNSON, A.B., <i>Indiana University</i> .....	Evansville, Ind.
SNYDER, FRANCIS XAVIER.....	(Bklyn) New York City
SPRIGG, CARROLL, Ph.B., <i>Yale</i> .....	Dayton, O.
STEYNE, LOUIS ARNDT.....	(Mhtn) New York City
WATRES, HAROLD ARTHUR, A.B., <i>Princeton</i> .....	Scranton, Pa.
Special Students.....	24

## SUMMARY

Third Year Class.....	129
Second Year Class.....	133
First Year Class.....	180
Special Students.....	24
Total.....	466







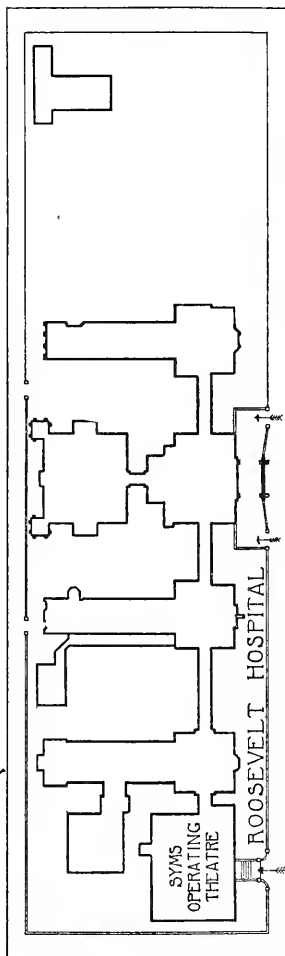
FIFTY EIGHTH STREET

AMSTERDAM

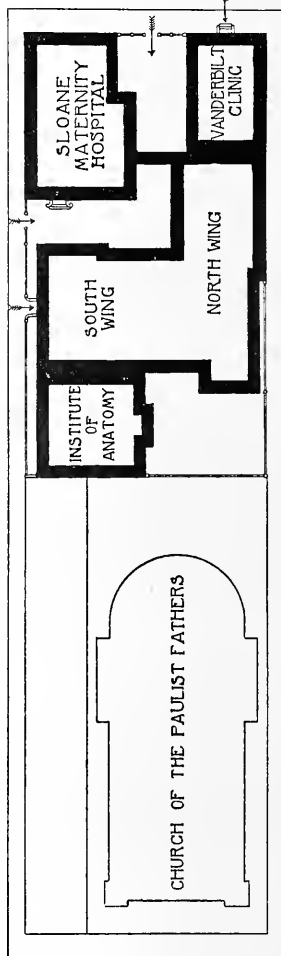
AVENUE

COLUMBUS

AVENUE



FIFTY NINTH STREET



SIXTIETH STREET

PLAN OF THE BUILDINGS AND GROUNDS  
COLLEGE OF PHYSICIANS AND SURGEONS  
COLUMBIA UNIVERSITY



## SCHOOL OF MEDICINE

### COLLEGE OF PHYSICIANS AND SURGEONS

The instruction in medicine is given under the following departments:

ANATOMY	GYNECOLOGY
BACTERIOLOGY AND HYGIENE	HISTOLOGY
CHEMISTRY, GENERAL	MATERIA MEDICA AND THERA- PEUTICS
CHEMISTRY, PHYSIOLOGICAL	NEUROLOGY
CLINICAL INSTRUCTION IN DER- MATOLOGY, GENITO - URINARY	OBSTETRICS
DISEASES, LARYNGOLOGY, OPH- THALMOLOGY ORTHOPEDIC SUR- GERY, OTOLOGY	PATHOLOGY
CLINICAL PATHOLOGY	PHYSICS
DISEASES OF CHILDREN	PHYSIOLOGY
	PRACTICE OF MEDICINE
	SURGERY

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#### Officers of the Faculty

JAMES W. McLANE, M.D. . . . .	<i>Dean and ex-officio Member of the University Council</i>
JOHN G. CURTIS, M.D. . . . .	<i>Elected Delegate to the University Council</i>
JAMES DITMARS VOORHEES, M.D. . . . .	<i>Secretary</i>

#### Committee on Administration

Drs. McLANE (Chairman), CURTIS, STARR, CRAGIN.

#### Committee on Admissions

Drs. HUNTINGTON (Chairman), PRUDDEN, JAMES.

#### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.,	<i>President</i>
JAMES W. McLANE, M.D.,	<i>Dean of the Faculty, ex-officio Delegate to the University Council, Emeritus Professor of Obstetrics</i>
T. GAILLARD THOMAS, M.D. . . . .	<i>Emeritus Professor of Obstetrics and Gynecology</i>
EDWARD CURTIS, M.D. . . . .	<i>Emeritus Professor of Materia Medica and Therapeutics</i>
FRANCIS DELAFIELD, M.D., LL.D. . . . .	<i>Emeritus Professor of the Practice of Medicine</i>
JOHN G. CURTIS, M.D. . . . .	<i>Professor of Physiology, Delegate to the University Council</i>

GEORGE M. TUTTLE, M.D.	Professor of Gynecology
GEORGE L. PEABODY, M.D.,	Professor of Materia Medica and Therapeutics
WILLIAM T. BULL, M.D.	Professor of Surgery
M. ALLEN STARR, M.D., Ph.D., LL.D.	Professor of Diseases of the Mind and Nervous System
GEORGE S. HUNTINGTON, M.D.	Professor of Anatomy
ROBERT F. WEIR, M.D., F.R.C.S. (Hon.)	Professor of Surgery
T. MITCHELL PRUDDEN, M.D., LL.D.,	Professor of Pathology; Director of the Laboratories of Pathology, Clinical Pathology, Bacteriology and Hygiene, and Histology.
EDWIN B. CRAGIN, M.D.	Professor of Obstetrics
WALTER B. JAMES, M.D.	Professor of the Practice of Medicine

For other officers see the Departmental Statements.

### GENERAL STATEMENT

The College of Physicians and Surgeons, on July 1, 1891, became, under the authority of the Legislature, a part of Columbia University. This merger, which made the medical department in a complete sense an integral part of the University system, has largely increased the usefulness of the Medical School, favored the thoroughness of scientific medical education, and promoted scientific research. The accessions to the teaching force, notably in the departments of Anatomy and Pathology and in the physiological and other laboratories, have permitted the realization, to a degree previously quite impossible, of the great opportunities for instruction and research afforded by the excellence of the dissecting-rooms, the laboratories, and apparatus.

The college occupies a group of buildings, given by the late William H. Vanderbilt and members of his family, and by William D. Sloane, Esq., which stand upon thirty contiguous lots of land, bounded on the south, west, and north by Fifty-ninth Street, Amsterdam Avenue, and Sixtieth Street, respectively, and lying immediately opposite to Roosevelt Hospital.

The buildings appertaining to the College are three in number:

- THE COLLEGE BUILDING PROPER;
- THE VANDERBILT CLINIC;
- THE SLOANE MATERNITY HOSPITAL.

THE COLLEGE BUILDING PROPER has been designed to facilitate that combination of theoretical instruction with laboratory work which is essential to a modern scientific training. It consists of a *southern portion*, measuring 140 feet by 43 feet, extending along Fifty-ninth Street; of a *northern portion*, 96 feet by 43 feet, extending along Sixtieth Street; and of a *middle portion*, 96 feet by 55 feet, connecting the other two. The total area covered is therefore 15,428 square feet. Each story above the basement of the northern and southern portions

has been built "in the clear," and contains neither brick partitions nor iron columns. It is therefore possible to remodel the interior at any future time.

Through the generous gift of Messrs. Cornelius, William K., Frederick W., and George W. Vanderbilt, in 1895, there has been rendered possible an important enlargement of the college building proper, which provides additional facilities for anatomical teaching and for practical work in Pathology and Bacteriology and Hygiene.

The south wing of the college has been extended on Fifty-ninth Street eastward for 55 feet, the depth of the new wing being 80 feet. This building is four stories high and is devoted to the Department of Anatomy. The basement contains the cast and modelling rooms, the corrosion room, and the reference osteological collection. The first and second stories are occupied by the Museum of Human and Comparative Morphology, the first floor being provided with a gallery, greatly increasing the available floor space.

The Morphological Research Laboratory occupies the third story of the anatomical building, affording ample accommodations for the researches of the officers of the department and for post-graduate students.

The fourth floor forms an extension to the original dissecting-room. The classroom for practical anatomy will accommodate over four hundred students, and by means of the artificial cooling plant work can be carried on without regard to the outside temperature.

The north end of the fourth floor is occupied by a small auditorium for anatomical demonstrations. It has overhead light and an arrangement of seats carefully planned so as to bring each member of the section close to the object of the demonstration.

The two upper floors of the building over the Vanderbilt Clinic extension were made continuous with the space formerly occupied by the department of Pathology, and the whole is devoted to the work of this department in Pathology, Bacteriology, and Hygiene, Clinical Pathology, Normal Histology, and Photography, and to such an extension of these as the plans of the four-years' course require. There is on the fifth floor in addition to the large class laboratories a series of larger and smaller rooms for advanced students and research work in Bacteriology. On the fourth floor there is a large laboratory for special advanced students in Pathology and for research, a series of private rooms for the instructors, and a departmental library.

#### **Vanderbilt Clinic**

THE VANDERBILT CLINIC was built and endowed by the sons of William H. Vanderbilt as a memorial of their father. It supplies a fully equipped dispensary service for the sick poor. It also affords ample material for extended practical clinical instruction in the various departments of medicine and surgery, as the professors, with their clinical assistants, have the entire charge of its practice.

The original building having proved inadequate, the sons of Mr. Vanderbilt in 1895 united in an additional gift of \$350,000, enabling the size of the building to be doubled. In the enlarged building ample space is provided not only for the reception of the constantly increasing number of patients, but also for the instruction of the students in small classes in each of the ten different departments. Two large dark rooms with twenty stalls are provided for instruction in the use of the ophthalmoscope and laryngoscope. Each department has a room for the practical instruction of small groups of students, in addition to the rooms devoted to the treatment of patients. There is a large theatre for the clinical lectures, accommodating about four hundred students, and a smaller lecture hall where one hundred can be seated.

All modern appliances for the treatment of diseases have been introduced, so that students can learn thoroughly the use of all methods in each department, and thus can acquire a practical knowledge of all the "specialties" in medicine.

During the year 1901, 47,156 patients were treated, making 153,446 visits to the clinic.

### Sloane Maternity Hospital

THE SLOANE MATERNITY HOSPITAL is situated upon the grounds of the College of Physicians and Surgeons, and the service is under the exclusive direction of the Professor of Obstetrics in the college, an Instructor in Obstetrics being the Resident Physician.

The wards of the hospital since its recent enlargement furnish one hundred and sixteen beds, and there are ample accommodations for the House Staff, students, and nurses.

The operating-room is equipped with all modern surgical and obstetrical conveniences and has a seating accommodation for fifty-one students.

The number of deliveries averages over fourteen hundred a year. These, with the obstetric operations and the subsequent treatment of women and infants, afford invaluable practical experience, such as is offered at no other medical school in this country.

### REQUIREMENTS FOR ADMISSION

*Particular attention is called to the following revised requirements for admission, which go into effect on July 1, 1903:*

All students who matriculate with the intention of becoming candidates for the degree of Doctor of Medicine must present a medical-student certificate granted by the Regents of the University of the State of New York, upon the basis of one or the other of the certificates named below:

A—(1) A certificate of having successfully completed at least one full year's course of study in a college or scientific school registered by the Regents as maintaining a satisfactory standard.

(2) A certificate of graduation from any registered gymnasium in Germany, Austria, or Russia.

(3) A certificate of the successful completion of a course of five years in a registered Italian *ginnasio* and three years in a *liceo*.

(4) The Bachelor's degree in arts or science, or its substantial equivalent conferred by any registered institution in France or Spain.

(5) Any credential from a registered institution, or from the government in any state or country, which credential represents the completion of a course of study equivalent to graduation from a registered Prussian gymnasium.

OR

B—A certificate of an examination conducted in June of any year by the College Entrance Examination Board, or of an examination conducted in September of any year under the auspices of the University Committee on Entrance Examinations of Columbia University or in part for both of these; which examination shall conform to the following regulations: \*

Total requirement, 15 points.

(Each point being the equivalent of a course of five periods weekly throughout the academic year.)

The candidate *must* offer

English.....	Counting 3 points.
Elementary Mathematics.....	" 3 "
$\frac{1}{2}$ Elementary Latin (Latin Grammar and Composition, and either 4 books of Cæsar or 6 Orations of Cicero, or 6 books of Virgil's <i>Æneid</i> ).....	" 2 "
Elementary French	} ..... " 2 "
or	
Elementary German	
Total.....	10 "

The 5 additional points may be offered from the following subjects, the only restriction being that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject.

\* For a detailed definition of the requirements in each subject and for full information regarding the regulations of the College Entrance Examination Board and of the University Committee on Entrance Examinations, see the announcement on *Entrance Examinations* and see the material on pp. 185-202 of present *Catalogue*.

Botany.....	Counting	1 point.
Chemistry.....	"	1 "
Drawing.....	"	1 "
Elementary French, if not offered among the 10 required points.....		2 points.
Intermediate French.....	"	1 point.
Advanced French.....	"	1 "
Elementary German, if not offered among the 10 required points .....		2 points.
Intermediate German.....	"	1 point
Advanced German.....	"	1 "
Elementary Greek.....	"	3 points.
Advanced Greek.....	"	1 point.
Elementary History.....	"	1 "
Advanced History.....	"	1 "
$\frac{1}{2}$ Elementary Latin (6 books of Virgil's Æneid, Latin Composition II, and sight translation).....		2 points.
Advanced Latin.....	"	1 point.
Advanced Mathematics.....	"	1 "
Elementary Physics.....	"	1 "
Advanced Physics.....	"	1 "
Physiography.....	"	1 "
Spanish.....	"	2 points.
Zoölogy.....	"	1 point.

Candidates who receive a grade of *C* (fair = 60% to 75%) in subjects amounting to not less than 12 of the 15 points offered will be admitted conditionally, upon such conditions as the Committee on Admissions of the Faculty of Medicine may impose; but, in every case, conditions imposed at entrance must be removed before the student is admitted to the Second Year of the course.

Candidates who do not receive a grade of at least *C* (fair = 60% to 75%) in subjects amounting to at least 12 of the 15 points offered will be rejected.

Candidates who offer Physics and Chemistry, or either of them, and who receive a grade of at least *B* (good = 75% to 90%) may be admitted to more advanced instruction in the subject, or subjects, in which such grade is obtained, as a substitute for the required Physics or Chemistry, during the First Year of the college course.

The regular instruction for 1902-03 began on Monday, October 6, 1902, at 11 A.M. Commencement will be on Wednesday, June 10, 1903.

*Every student intending to be a candidate for the degree of M.D. must register his name in person within the first seven working days of each session.*

For the Academic Calendar, 1902-03, consult the Index.



## COURSE OF STUDY LEADING TO THE DEGREE OF M.D.

(A much more detailed summary will be found in the special *Announcement* of the *College of Physicians and Surgeons*. The *Announcement* also gives full information as to the method whereby the standing of a student is determined at the end of each of the four years of the course.)

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Physics 3 <sup>1</sup> Chemistry 2 Anatomy 2, 3, 4, and 5 Normal Histology 1 Physiology 1, 3 <i>Examinations upon the work of the first year</i>	Anatomy 1, 6, 7, 8, and 9 Physiology 2, 3 Normal Histology 2 Pathology 1 Bacteriology and Hygiene 1 Materia Medica and Therapeutics 1* Obstetrics 2 Gynecology 2 Practice of Medicine, 9 Physiological Chemistry, 1 <i>Examinations upon the work of the second year</i>	Materia Medica and Therapeutics 1, 2* Pathology 2, 3 Practice of Medicine 1, 2*, 4, 6, 8 Neurology 1* Surgery 1, 2*, 3, 7, 8, 9* Obstetrics 1 Gynecology 1, 3* Genito-Urinary Diseases 1, 2, 3 Ophthalmology 1, 2, 3 Otology 1, 2 Diseases of Children, 1, 4 <i>Examinations upon the work of the third year</i>	Practice of Medicine 1, 2*, 3, 5 Neurology 1, 2, 3, 4 Clinical Pathology 1 Surgery 1, 2*, 4, 5, 6, 8, 9* Orthopedic Surgery 1, 2 Obstetrics 3 Gynecology* (3 optional) Dermatology 1, 2 Diseases of Children 2, 3, 4 (1902-03), 5 Laryngology 1, 2, 3 <i>Examinations upon the work of the fourth year</i>

\* In all subjects which are not completed in a single year, the instruction offered to a given student is different each year.

Consult the Departmental Statements (pp. 61-184) for

- (1) The scope of each course, the number of hours required for it, and the instructors giving it;
- (2) Information regarding the courses open to special (graduate) students in medicine;
- (3) Courses which may be counted towards the degrees of A.M. and Ph.D.

Students who have pursued elsewhere courses in Physics and General Chemistry substantially equivalent to those given at this College, may be exempted from the work in those subjects on presentation of satisfactory certificates, or after satisfactory examination. In view of this fact students intending to pursue the study of medicine are recommended, in their preliminary education, to take thorough courses in Physics and Chemistry, including laboratory work in each.

## Clinics at the Vanderbilt Clinic

Eleven clinics are given each week at the Vanderbilt Clinic, as follows:

SURGICAL { Professor BULL, Thursdays, 12 M.  
                   { Professor WEIR, Mondays, 12 M.

ORTHOPEDIC SURGERY—Professor GIBNEY, Fridays, 12 M.

DISEASES OF THE THROAT AND NASAL PASSAGES—Professor LEFFERTS, Mondays, 2 P.M.

DISEASES OF THE SKIN—Professor FOX, Mondays, 3 P.M.

DISEASES OF CHILDREN—Professor HOLT, Wednesdays, 2 P.M.

GENITO-URINARY DISEASES—Professor TAYLOR, Thursdays, 2 P.M.

MEDICAL—Professor DELAFIELD, Thursdays, at 3 P.M.; Professor JAMES, Wednesdays, at 3 P.M.

DISEASES OF THE MIND AND NERVOUS SYSTEM—Professor STARR, Fridays, 2 P.M.

GYNECOLOGICAL—Professor TUTTLE, Fridays, 3 P.M.

## Hospital Clinics

*See the Statements of the several Departments (pages 61-184.)*

Besides the Vanderbilt Clinic, the general and special hospitals of New York afford most important fields for clinical teaching. This College is strongly represented on the staffs of these institutions, and regular clinical instruction at hospitals is made a prominent feature of the curriculum. *Admission is free* to all matriculated students. At all the following hospitals instruction is given by officers of the College:

SLOANE MATERNITY HOSPITAL, corner of Fifty-ninth Street and Amsterdam Avenue.

ROOSEVELT HOSPITAL: Fifty-ninth Street, between Ninth and Tenth Avenues.

*Medical*—Mondays, at 4 P.M., Professors PEABODY and JAMES

*Surgical*—Tuesdays, at 11.45 A.M., from October to February, and Wednesdays, at 11.45 A.M., from February to May, Professor BULL; Saturdays, at 3.15 P.M., Professor WEIR

*Gynecological*—Tuesdays, Thursdays, and Saturdays, at 2.30 P.M., Professor TUTTLE

*Children's*—Mondays and Thursdays, at 5 P.M., Professor JACOBI

NEW YORK HOSPITAL, Fifteenth Street, between Fifth and Sixth Avenues:

*Medical*—Saturdays, at 10.30 A.M., from November to May, Professors PEABODY and BALL

*Surgical*—Saturdays, at 11.30 A.M., Professors HARTLEY and MARKOE

BELLEVUE HOSPITAL, Twenty-sixth Street and East River:

*Surgical*—Tuesdays, 2.30 P.M., Drs. HOTCHKISS and GALLAUDET

*Genito-Urinary*—Tuesdays, 3.30 P.M., Professor TAYLOR

ST. LUKE'S HOSPITAL, Morningside Heights, One Hundred and Thirteenth Street and Amsterdam Avenue:

*Surgical*—Fridays at 2.30 P.M., Professor MARKOE and Dr. ABBE

PRESBYTERIAN HOSPITAL, Madison Avenue and Seventieth Street:

*Surgical*—Tuesdays, 3.30 P.M., Dr. MCCOSH; Wednesdays and Fridays, 2.30 P.M., Dr. ELIOT

*Medical*—November, December, January, February, March, Tuesdays, 4 P.M., and Fridays, 3 P.M., Professor KINNICUTT

GENERAL MEMORIAL HOSPITAL, One Hundred and Sixth Street and Central Park, West:

*Surgical*—Mondays, 9 A.M., Dr. CHAS. N. DOWD

*Gynecological*—Tuesdays, 9 A.M., Dr. GEO. W. JARMAN

HOSPITAL FOR THE RUPTURED AND CRIPPLED, Lexington Avenue and Forty-third Street:

Tu. and F., 8.30–10 A.M., Professors GIBNEY and BULL

Tu., Th., and S., 1–3 P.M. Out-patient clinic—Dr. WHITMAN

ST. MARY'S FREE HOSPITAL FOR CHILDREN, 405 and 407 West Thirty-fourth Street:

Th., 10.30–11.30 A.M., Dr. CHAS. T. POORE

F. 2.30 P.M., Dr. C. M. DOWD

NEW YORK FOUNDLING HOSPITAL, 175 East Sixty-eighth Street, or BABIES' HOSPITAL, 127 East Fiftieth Street:

Tu. 2 P.M., and F., 3 P.M. Professor HOLT

## BOARD

Information in regard to board can be obtained through the Assistant Registrar, Mr. E. T. Boag, at his office in the Medical School. Prices range from \$5 to \$9 per week.

## CORRESPONDENCE

Letters requesting information should be addressed to Secretary of the Faculty, 437 West Fifty-ninth Street, New York.

## EXAMINATIONS AND STANDING

Each student must be examined at the close of each session upon the work of that session.

A second examination, for candidates found deficient at the close of the first, second, or third year's work, will be held during the week before the opening of the following session.

### Exemption from Physics and General Chemistry

1. Persons who have pursued successfully at colleges, scientific schools, or universities, courses in Physics, or General Chemistry, or both, substantially equivalent to those given to medical students at this University, may be exempted from the first-year work in either or

both of the above subjects on presentation of properly authenticated certificates from the institutions at which the said courses were pursued.

2. Persons who have pursued elsewhere than at colleges, scientific schools, or universities, courses in Physics, or General Chemistry, or both, claimed to be substantially equivalent to those given to medical students at this University, may be exempted from the first-year work in either or both of the above subjects on passing satisfactory examinations, both theoretical and practical.

### Admission to Advanced Standing

Admission may be granted to advanced standing at the beginning of the second or of the third year, but not of the fourth year without the special consent of the Faculty.

Every applicant for advanced standing will be required (1) to present satisfactory evidence of having attended, in a recognized medical school (or, for *General Chemistry or Physics* in a recognized college, scientific school, or university), courses reasonably equivalent to those already attended by the class to which he seeks admission; (2) to be examined for admission in all the subjects in which the said class shall have been examined already; (3) to present a medical-student certificate from the Regents of the University of the State of New York; (4) to matriculate with the payment of the regular matriculation fee (five dollars).

A candidate for admission to advanced standing at the beginning of the second or third year may be so admitted either unconditionally or conditionally. In the latter case, his admission will be upon the same terms as govern the students who have pursued at this college the curriculum of the first or second year.

During the week before the opening of each session there will be held examinations upon the work done during the previous session in each department of the first, second, and third years of the course, which examinations will be open both to candidates found deficient at the end of the previous session, and to candidates for admission to advanced standing at the beginning of the second, third, or fourth year.

### REQUIREMENTS FOR GRADUATION

Every candidate before admission to the degree of M.D. will be required:

1. To present satisfactory evidence, as required by law, of good moral character, and of having attained the age of twenty-one years.
2. To present evidence of having complied with the requirements for admission.
3. To have attained to satisfactory standing in the required studies of the four years of the curriculum.
4. A candidate who shall have been admitted to advanced standing

will be required to have spent not less than four academic years at the studies referred to in the clause next preceding; and to have complied successfully with the requirements for admission to advanced standing.

No two academic years which shall have begun during the same calendar year will be held to satisfy the requirements of the above clause.

### THE DEGREE OF MASTER OF ARTS

The degree of Master of Arts may be conferred upon students holding college degrees who shall have completed with distinction the entire course of the School of Medicine, provided that in each case the candidate presents a satisfactory dissertation, and that at least a part of the extra work required of him for the degree of Master of Arts be taken under the direction of the Faculty of Philosophy, Political Science, or Pure Science, to the extent of one minor course for not less than one year.

Students in the School of Medicine who are candidates for the degree of Master of Arts, in accordance with the preceding paragraph, are subject to the regulations of the faculty of Philosophy, Political Science, or Pure Science, under which the extra work is taken, and which finally recommends the candidates for the degree. Such students should apply to the Dean of the same faculty for a registration-book.

### SCHOLARSHIP, FELLOWSHIPS, AND PRIZES

For the Alonzo Clark Scholarship see page 42.

For the University Fellowships, see page 27.

For the Alumni Association Fellowships, see page 41.

For the Proudfit Fellowship, see page 42.

For the Harsen Prizes for clinical reports, see page 42.

For the Harsen Prizes for proficiency at examination, see page 43.

For the Alumni Association Prize, see page 43.

For the Cartwright Prize, see page 44.

For the Stevens Triennial Prize, see page 44.

For the Joseph Mather Smith Prize, see page 44.

### EQUIPMENT AND COLLECTIONS

Detailed information as to the laboratories, collections, and other facilities for study will be found in the statements of the various departments of instruction, pages 61-184, and more fully in the *Announcement of the College of Physicians and Surgeons*.

### REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN NEW YORK STATE

For information, see the *Announcement of the College of Physicians and Surgeons*.

## REGISTER OF STUDENTS

### FOURTH YEAR CLASS

ABEL, SAMUEL.....	(Mhnt) New York City
ADAMS, PAUL ALLEN, A.B., <i>Leland Stanford, Jr., University</i> .....	Helena, Mont.
ALLEN, DAVID GORDON.....	Savannah, Ga.
AMES, ELMER HEMPSTED.....	Jersey City, N. J.
ANDREWS, WARREN BEECHER.....	Plantsville, Conn.
BAKER, FRED REUEL, A.B., <i>Williams</i> .....	Bloomington, Ill.
BAMA, LEWIS.....	(Mhnt) New York City
BARNES, HARRY.....	Ashton, R. I.
BEATTIE, WILLIAM HENRY, A.B., <i>Williams</i> .....	Cohoes, N. Y.
BECK, ERICH CARL ADOLPH.....	(Mhnt) New York City
BENTZ, GEORGE HENRY.....	(Mhnt) New York City
BLOCK, MARK.....	(Mhnt) New York City
BLOOM, DAVID MERWIN.....	Newark, N. J.
BLUMGART, LEONARD.....	Newark, N. J.
BODENHEIMER, MILTON, B.S., <i>N. Y. City College</i> .....	(Mhnt) New York City
BORDEN, JOHN HARVEY, A.B., <i>Yale</i> .....	(Mhnt) New York City
BRENNGLASS JOACHIM, Ph.G., <i>N. Y. College of Pharmacy</i> .....	(Mhnt) New York City
BRILL, ABRAHAM, Ph.B., <i>N. Y. University</i> .....	(Mhnt) New York City
BROWN, ALFRED JEROME, A.B., <i>Yale</i> .....	(Mhnt) New York City
BROWN, FRANK EDWIN.....	(Bklyn) New York City
BUGBEE, HARRY GREENWOOD.....	Springfield, Mass.
BULLOWA, JESSE GODFREY MORITZ, A.B., <i>N. Y. City College</i> .....	(Mhnt) New York City
BURDICK, CARL GOODWIN.....	Springfield, Mass.
BURFORD, MORTIMER GILBERT.....	(Bklyn) New York City
CANNON, JAMES RUTHERFORD.....	Irvington-on-Hudson, N. Y.
CANTLE, HERBERT CUTHBERT.....	(Mhnt) New York City
CAPITO, GUSTAV BENZ, A.B., <i>Washington and Lee</i> .....	Charleston, W. Va.
CARTER, NORMAN MCLEOD, A.B., <i>Princeton</i> .....	(Mhnt) New York City
CHACE, ARTHUR FREEBORN, B.S., <i>Earlham, A.B., Harvard</i> .....	South Swansea, Mass.
CLAY, THOMAS ARTHUR.....	Paterson, N. J.
COCKS, GERHARD HUTCHISON, A.B., <i>Yale</i> .....	(Mhnt) New York City
COHEN, FRANK.....	(Mhnt) New York City
COLTON, EDWIN ARTHUR, A.B., <i>Amherst</i> .....	Montpelier, Vt.
COOK, ALBERT EDWARD.....	(Bklyn) New York City
CORNMAN, LEIGHTON RANDOLPH.....	(Mhnt) New York City
COSGROVE, JOHN JOSEPH.....	Worcester, Mass.
COWLES, HENRY CLAY, JR., A.B., <i>University of North Carolina</i> .....	Statesville, N. C.
DAVID, FRANK HAINES.....	(Mhnt) New York City
DEAL, FRED AUGUSTUS, M.D., <i>Albany Medical College</i> .....	Green Island, N. Y.
DE BAUN, RALPH.....	Valley Cottage, N. Y.
DIAS, JOSEPH LAWRENCE.....	New Bedford, Mass.
DORAN, CHARLES EDMUND, A.B., <i>University of Nebraska</i> .....	(Mhnt) New York City
DUBOIS, FRANCIS ELBERT, A.B., <i>Princeton</i> .....	(Mhnt) New York City
DURHAM, ROGER, A.B., <i>Columbia</i> .....	(Mhnt) New York City
ELIAS, LEWIS WEIMAR, A.B., <i>Trinity College, North Carolina</i> .....	Franklin, N. C.
ELMORE, WILBUR BRUCE, A.B., <i>Columbia</i> .....	Oberlin, O.

EPLER, DON AGARD.....	Saratoga, N. Y.
ERDWURM, FRANK, B.S., <i>N. Y. University</i> .....	Jersey City, N. J.
ERSKINE, JAMES PENDLETON, A.B., <i>Wesleyan</i> .....	(Mhtn) New York City
FAIRCHILD, CHARLES WAGER.....	Tarrytown, N. Y.
FASSETT, BRYANT SLOAT.....	Elmira, N. Y.
FAUCETT, SAMUEL THOMPSON.....	Stamford, Conn.
FINCH, LEW HENRI.....	Broadalbin, N. Y.
FINN, FREDERIC ALOYSIUS, A.B., <i>St. Peter's College</i> .....	Jersey City, N. J.
FRANKLIN, LOUIS.....	Jersey City, N. J.
FRIED, GUSTAV ADOLPH, A.B., <i>Harvard</i> .....	(Mhtn) New York City
FRIEDMAN, HARRY JACOB.....	(Mhtn) New York City
GAGE, GEORGE HENRY.....	Bellona, N. Y.
GARRETSON, WILLIAM VAN PELT.....	Jersey City, N. J.
GARSIDE, CHARLES ZEH.....	Newark, N. J.
GARYIN, WILLIAM CREIGHTON.....	(Mhtn) New York City
GOLDFRANK, FRED, A.B., <i>Harvard</i> .....	(Mhtn) New York City
GOULD, GEORGE CLIFFORD.....	Mt. Vernon, N. Y.
GREGORY, WARD SLOSSON, Ph.B., <i>Yale</i> .....	Norwalk, Conn.
GRIEP, JOSEPH.....	(Mhtn) New York City
GROSS, HERMAN.....	(Mhtn) New York City
GULLIVER, FRANCIS DANIEL.....	Portland, Me.
HABER, WILLIAM JOHN, Ph.G., <i>University of California</i> .....	San Francisco, Cal.
HAMILTON, SAMUEL WARREN, A.B., <i>University of Vermont</i> .....	Rutland, Vt.
HARRAN, GEORGE PATRICK.....	(Mhtn) New York City
HASKING, ARTHUR PERRY.....	Jersey City, N. J.
HAWKS, EVERETT MERL, A.B., <i>Columbia</i> .....	Tarrytown, N. Y.
HAYNES, ROYAL STORRS, Ph.B., <i>Cornell</i> .....	(Bklyn) New York City
HAZAY, MAX.....	(Mhtn) New York City
HELGESON, KARL ALFRED.....	Keokuk, Iowa
HENDERSON, ALFRED COLLARD, B.S., <i>Amherst</i> .....	(Bklyn) New York City
HERLITZKA, LOUIS.....	(Mhtn) New York City
HIGGINS, SPENCER LITTLEFIELD, B.S., <i>Rutgers</i> .....	Roselle, N. J.
HOLCOMB, HENRY VAN VELSOR, Ph.G., <i>N. Y. Coll. of Phar</i> .....	Mamaroneck, N. Y.
HOLDRIDGE, WALTER HENRY.....	Catskill, N. Y.
HOROWITZ, ISRAEL.....	(Mhtn) New York City
HUFF, EARLE PHINEAS.....	Ada, O.
HUFFMAN, OTTO VON.....	Dayton, O.
HUMPHREYS, FREDERICK BROWN, Ph.B., <i>Yale</i> .....	(Mhtn) New York City
IRVING, PIERRE FREDERIC, A.B., <i>Columbia</i> .....	(Mhtn) New York City
JACHES, LEOPOLD, LL.B., <i>New York Law School</i> .....	(Mhtn) New York City
KELLOGG, HENRY KIRKE WHITE, B.S., <i>Amherst</i> .....	(Mhtn) New York City
KENT, JAMES MANNING, A.B., <i>Brown</i> .....	Putnam, Conn.
KENYON, HAROLD DENISON.....	Westerly, R. I.
KERNAN, JOHN DEVEREUX, Jr., A.B., <i>Harvard</i> .....	(Mhtn) New York City
KESSEL, LEO.....	(Mhtn) New York City
KINGSBURY, ISAAC WILLIAM, A.B., <i>Harvard</i> .....	(Mhtn) New York City
KNIFE, JOSEPH BOLTON.....	(Mhtn) New York City
KNIFE, WILLIAM HUGH WELLINGTON, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
LE COMTE, JOHN RADWAY.....	(Mhtn) New York City
LEITER, HORACE LOUIS, A.B., <i>Harvard</i> .....	Syracuse, N. Y.
LENNOX, PAUL MARTIN.....	Colorado Springs, Colo.
LENT, MALCOLM FOSTER.....	Peekskill, N. Y.
LEONARD, ARTHUR JAMES.....	Saratoga, N. Y.
LESEM, WILLIAM WOLFE, A.B., A.M., <i>Columbia</i> .....	(Mhtn) New York City
LEVY, JOSEPH.....	(Bklyn) New York City
LORBER, HERMAN.....	(Mhtn) New York City
LORD, WILLIAM OGDEN.....	New Bedford, Mass.
LYNE, FRANK FARRA, B.L., <i>Kentucky University</i> .....	Brannon, Ky.

McCASTLINE, WILLIAM HENRY.....	(Mhtn) New York City
McCOLLOM, WILLIAM EZRA.....	(Bklyn) New York City
MACBEAN, WILLIAM ALISTAIR BRUCE.....	Tarrytown, N. Y.
MARKHAM, CONVAS LANE.....	Haverstraw, N. Y.
MARKS, SAMUEL BLACKBURN, B.S., <i>Kentucky State College</i> .....	Versailles, Ky.
MOSENTHAL, HERMAN OTTO, A.B., <i>Columbia</i> .....	(Mhtn) New York City
NASH, WILLIAM GIBBS, A.B., <i>Harvard</i> .....	(Mhtn) New York City
NELSON, NATHAN WILLIAM.....	Richmond, Va.
NEUMANN, WILLIAM.....	(Mhtn) New York City
NEWMAN, FREDERICK JAMES.....	(Mhtn) New York City
NICOLL, ALEXANDER.....	(Mhtn) New York City
NICOLL, LEONARD FRANCIS.....	(Mhtn) New York City
OGAN, MORRIS LEE.....	(Mhtn) New York City
OSGOOD, CHARLES.....	Norwich, Conn.
OWENS, GEORGE CONRAD.....	Adams Center, N. Y.
PALMER, LYNN RANSOM.....	Sidney, N. Y.
PARKINSON, JAMES McDAVID.....	Norwich, Conn.
PATERSON, DOUGLAS CAMPBELL.....	(Mhtn) New York City
PEABODY, JAMES ROYDEN.....	Columbus, Ga.
PEASE, THEODORE NORMAND.....	Boston, Mass.
PIERPONT, DAVID COWEE.....	National Home, Wis.
PIERSON, HENRY MORTON.....	Roselle, N. J.
POSNER, EDWARD RUDOLPH.....	Des Moines, Iowa
POTTER, PHILIP SHERIDAN, B.A., <i>Yale</i> .....	North Adams, Mass.
POU, ROBERT EDWARD.....	Columbus, Ga.
PUNTE, ALFONSO MANUEL, A.B., <i>University of Havana</i> .....	Santiago, Cuba
RECKNAGEL, WILLIAM EDWARD.....	Brunswick, Ga.
REID, ROBERT LINCOLN.....	(Mhtn) New York City
RINGLAND, ROBERT FINLAY.....	Montclair, N. J.
ROBINSON, EMANUEL MARX.....	(Mhtn) New York City
ROKEACH, AARON.....	(Mhtn) New York City
ROSEN, ISADORE.....	(Mhtn) New York City
ROSENBAUM, MORRIS.....	(Mhtn) New York City
ROWLAND, HARRY HAYNES, A.B., <i>Williams</i> .....	Geneseo, N. Y.
RUNYON, LAURANCE PHILLIPS, B.S., <i>Rutgers</i> .....	New Brunswick, N. J.
RYAN, JOSEPH PATRICK.....	Danbury, Conn.
SALADINO, SEBASTIAN.....	(R) New York City
SCHEINA, OTTO.....	(Mhtn) New York City
SCHNEPEL, GEORGE AUGUSTUS.....	(Mhtn) New York City
SHANNAHAN, RICHARD JOSEPH, A.B., <i>Holy Cross</i> .....	Worcester, Mass.
SHIPMAN, CLARK SMYTHE.....	(Mhtn) New York City
SIMMONS, FRED ALBERT, Ph.B., <i>Brown</i> .....	Adams, Mass.
SINNOTT, JOSEPH JOHN.....	Mt. Vernon, N. Y.
SMITH, LEROY JAMES.....	Turner, N. Y.
SPANIER, LOUIS.....	(Mhtn) New York City
STERN, ADOLPH, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
STORK, LOUIS, Jr.....	(Bklyn) New York City
STRODL, GEORGE THOMAS, A.B., <i>N. Y. City College</i> .....	West Hoboken, N. J.
TARDITI, ANTONIO.....	(R) New York City
TAVES, ARCHIBALD WILLIAM.....	(Mhtn) New York City
TILTON, ARTHUR RUSSELL.....	Hammond, N. Y.
TRAINOR, JAMES HENRY.....	New Brunswick, N. J.
TUNICK, ISIDOR SOLOMON.....	(Mhtn) New York City
TWICHELL, DAVID CUSHMAN, A.B., <i>Yale</i> .....	Hartford, Conn.
VAN DYKE, BENJAMIN SMITH.....	Stockton, N. J.
VARY, HARVEY JUDSON, A.B., <i>Williams</i> .....	Skaneateles, N. Y.
WEISSMAN, MAX, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
WHITBECK, BRAINERD HUNT, A.B., <i>Harvard</i> .....	Rochester, N. Y.



WHITTAKER, NEIL McLEOD.....	(Bklyn) New York City
WICKHAM, JOSEPH NELSON.....	(Q) New York City
WIDMER, HENRY RUDOLPH.....	(R) New York City
WILLIAMS, FREDERIC DARBEY.....	Valley Falls, R. I.
WILLIAMS, IRVING DEWEY, A.B., A.M., <i>Hamilton</i> .....	Turin, N. Y.
WILLIAMS, JOHN NELSON, A.B., <i>Columbia</i> .....	Bedford, N. Y.
WOLFF, MORRIS.....	Muncie, Ind.
YOUNG, JOSEPH WITHAM, B.S., <i>Cornell</i> .....	(Mhtn) New York City
ZINSSER, HANS WILLIAM, A.B., <i>Columbia</i> .....	Lake Mohegan, N. Y.
Fourth Year Class.....	171

## THIRD YEAR CLASS

ADAMS, ROBERT ALBERT, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
ALLEN, ALBERT HENRY, Ph.B., <i>Emory College</i> .....	Columbus, Ga.
ALLEN, BENJAMIN GILL, A.B., <i>Trinity College</i> .....	Bobbitt, N. C.
ARMINGTON, HERBERT HAMLIN, A.B., <i>Brown</i> .....	Providence, R. I.
ARONSON, LOUIS SIMON.....	(Mhtn) New York City
ASSENHEIMER, EDWARD MINTURN.....	(Mhtn) New York City
AVERY, OSWALD THEODORE, A.B., <i>Colgate</i> .....	(Mhtn) New York City
BANDLER, CLARENCE GARFIELD.....	(Mhtn) New York City
BANISTER, ROBERT LOUIS.....	Newark, N. J.
BARNERT, CYRIL.....	Paterson, N. J.
BARTRUM, WILLIAM C.....	Newburgh, N. Y.
BELL, ALLISTER MACDONALD, A.B., <i>Yale</i> .....	Orange, N. J.
BIEGELEISEN, JOSEPH ZACHARY.....	(Mhtn) New York City
BLACK, MICHAEL FRANCIS, A.B., <i>Williams</i> .....	Williamstown, Mass.
BLANCARD, WILLIAM.....	(Mhtn) New York City
BLAUNER, SAMUEL, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
BOESE, WILLIAM HENRY, A.B., <i>Columbia</i> .....	(Mhtn) New York City
BONDY, JULIUS.....	Hartford, Conn.
BOPP, WALTER FREDERICH, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
BOWMAN, JAMES FLOYD, A.B., <i>Columbia</i> .....	Montclair, N. J.
BRAND, ADOLPH.....	(Mhtn) New York City
BRANDOWER, WILLIAM.....	(Mhtn) New York City
BREED, ROBERT HUNTINGTON.....	Cornwall, N. Y.
BURROWS, WATERS FIELD, A.B., <i>Columbia</i> .....	Elizabeth, N. J.
BYRD, FRANCIS OTWAY, A.B., <i>Harvard</i> .....	(Mhtn) New York City
CARTER, ROBERT WILLIAM, A.B., <i>Princeton</i> .....	Montclair, N. J.
CHERRY, THOMAS HARRIS.....	(Mhtn) New York City
CHESSMAN, FRANK NEWHALL.....	Helena, Mont.
CLARK, WILLIAM IRVING, Jr., A.B., <i>Columbia</i> .....	(Mhtn) New York City
CLEGHORN, CHARLES DALTON, B.S., <i>Princeton</i> .....	Manchester, Vt.
COERR, FREDERIC DAN HUNTINGTON, A.B., <i>Columbia</i> .....	(Mhtn) New York City
COHN, ALFRED EINSTEIN, A.B., <i>Columbia</i> .....	(Mhtn) New York City
COMMISKEY, LEO JOHN JOSEPH.....	(Bklyn) New York City
COOK, EDWARD, A.B., <i>Harvard</i> .....	(Mhtn) New York City
COOKE, ROBERT ANDERSON, A.B., <i>Rutgers</i> .....	New Brunswick, N. J.
COWAN, JAMES ALBERT, Ph.B., Ph.D., <i>Rome, Italy</i> .....	(Mhtn) New York City
CRAIG, HENRY AUGUSTUS.....	New Germantown, N. J.
CRAMP, WALTER CONCENORE, A.B., <i>Colgate</i> .....	(Mhtn) New York City
CUSSLER, EDWARD.....	Catskill, N. Y.
DATTELBAUM, MORRIS JACOB.....	(Bklyn) New York City
DAVIDSON, ISIDOR, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
DEKOVEN, BERNARD.....	(Mhtn) New York City
DIEFFENBACH, RICHARD HAGEN.....	Newark, N. J.
DINGMAN, JOHN CLARENCE.....	Spring Valley, N. Y.
DINGMAN, THOMAS ALVA.....	Spring Valley, N. Y.
DOLPHIN, BENJAMIN EDWARD.....	(Mhtn) New York City

DUCKETT, WARREN JAMES.....	Skaneateles, N. Y.
DUDLEY, BENJAMIN WILLIAM.....	Lexington, Ky.
DUNCAN, OWSLEY BENNETT.....	Paterson, N. J.
EASTMOND, CHARLES, A.B., <i>Columbia</i> .....	(Bklyn) New York City
EICHHORN, HERMAN, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
EVANS, ARCHIBALD PARKER.....	(Bklyn) New York City
EYTINGE, ERNEST OLIVER JOSEPH.....	(Mhtn) New York City
FASSETT, EDWIN CHARLES.....	Kingston, N. Y.
FICHTER, LOUIS.....	(Mhtn) New York City
FINKELSTEIN, HARRY.....	(Mhtn) New York City
FLAKS, ARY, <i>University of Moscow</i> .....	(Mhtn) New York City
FLATTO, ISADORE.....	(Mhtn) New York City
FLYNN, DAVID JOSEPH, A.B., <i>Georgetown University</i> .....	Boston, Mass.
FREEMAN, JAMES VOORHEES, Jr., A.B., <i>Harvard</i> .....	Sewaren, N. J.
FREY, DAVID INGHAM.....	(Mhtn) New York City
GAIN, JOHN CAMERON.....	Toronto, Canada
GELLERT, SAMUEL.....	(Mhtn) New York City
GHIGLIONE, AUGUST JOSEPH.....	(R) New York City
GLANZ, HYMAN, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
GOLDSTONE, KARL HAROLD.....	(Mhtn) New York City
GRAHAM, CLARENCE MINTURN.....	Poughkeepsie, N. Y.
GREENWAY, JAMES COWAN, A.B., <i>Yale</i> .....	Hot Springs, Ark.
GRUSSNER, ALBERT.....	(Mhtn) New York City
GUTHERSON, WILLIAM FRANCIS, B.S., <i>New York University</i> .....	Paterson, N. J.
HALE, GORDON DYER, Ph.B., <i>Brown</i> .....	Providence, R. I.
HAMILL, PATRICK JOSEPH PAUL, A.B., A.M., <i>St. Peter's College</i> .....	Jersey City, N. J.
HANCE, JOSEPH CAMPBELL.....	New Philadelphia, Ohio
HARDENBERG, DANIEL SAYRE, Jr.....	Jersey City, N. J.
HARRIS, BURTON SEYMOUR.....	Westfield, N. J.
HART, ALFRED JOHN.....	(Mhtn) New York City
HASTIE, JOHN DEARBORN, A.B., <i>University of Nebraska</i> .....	Kemmerer, Wyo.
HENNEN, WILLIAM DAVISON.....	(Mhtn) New York City
HERVEY, ALLAN MOORE, A.B., <i>Harvard</i> .....	(Mhtn) New York City
HIBLER, GEORGE HUNT.....	Morristown, N. J.
HOLMES, CLARENCE ALBERT, B.S., <i>New York University</i> .....	(Br) New York City
HOLTHAUSEN, WILLIAM FREDERICK.....	(Bklyn) New York City
HOOD, PHILIP GARFIELD.....	Newark, N. J.
HOOKE, HARRY LYMAN.....	(Mhtn) New York City
HOROWITZ, BENJAMIN, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
HOROWITZ, PHILIP.....	(Mhtn) New York City
HULL, ALLEN.....	(Bklyn) New York City
HULL, EDWARD TAYLOR, B.S., <i>Boston University</i> .....	Southport, Conn.
HUSSEY, FREDERIC VINAL, Ph.B., <i>Brown</i> .....	Franklin, Mass.
ISON, VIRGIL STROTHER.....	Baker City, Ore.
JACOBS, LOUIS.....	(Mhtn) New York City
JARCHO, JULIUS.....	(Mhtn) New York City
JEFFREY, STEWART LEE.....	(Mhtn) New York City
KATZ, DAVID.....	(Mhtn) New York City
KEEGAN, THOMAS DANIEL.....	Jersey City, N. J.
KIMBALL, CLEAVELAND CADY, A.B., <i>Amherst</i> .....	(Mhtn) New York City
KRESHOVER, JACOB SIEGFRIED.....	(Mhtn) New York City
KUDLICH, HANS EDGAR, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
LANG, OTTO, Jr., A.B., <i>Detroit</i> .....	Detroit, Mich.
LATHROP, GEORGE HAINES, A.B., <i>Princeton</i> .....	Scranton, Pa.
LATHROP, HAROLD WILKINSON.....	Livingston Manor, N. Y.
LEAVITT, EMANUEL JOSEPH.....	(Mhtn) New York City
LEGGETT, NOEL BLEECKER.....	(R) New York City
LEVY, JULIUS.....	Newark, N. J.

LITTELL, ELTON GARDNER, A.B., <i>Trinity</i> .....	(Mhnt) New York City
LOHMAN, WILLIAM HENRY.....	(Bklyn) New York City
LONG, JAMES MCMASTER, A.B., <i>Yale</i> .....	Pittsburg, Pa.
LORENZO, FRANK ALEXANDER.....	Punxsutawney, Pa.
MCBRIDE, DAVID ALLEN.....	Plattsburgh, N. Y.
MCNENNEY, CLAUDE EMMET, A.B., <i>St. Peter's College</i> .....	Jersey City, N. J.
MCSSHEEHY, MORGAN THOMAS, A.B., <i>Holy Cross</i> .....	Whitinsville, Mass.
MALCOLM, JOSEPH DOUGLAS.....	(Mhnt) New York City
MASON, HOWARD HARRIS, A.B., <i>Brown</i> .....	Providence, R. I.
MEHLER, GEORGE JOHN.....	(Mhnt) New York City
MEYER, GUY HERBERT.....	Paris, Tex.
MEYER, JULIAN JACQUES, A.B., <i>N. Y. City College</i> .....	(Mhnt) New York City
MINER, LUCIEN LUTTRELL.....	(Mhnt) New York City
MITTENDORF, ALFRED DERBY, A.B., <i>Princeton</i> .....	(Mhnt) New York City
MOELLER, HENRY NICHOLAS.....	(Mhnt) New York City
MOFFIT, ALBERT ROWCLIFFE, A.B., <i>Williams</i> .....	Princeville, Ill.
MOORHEAD, ROBERT LOWRY, Jr.....	(Bklyn) New York City
MORSCH, HENRY WILLIAM.....	(Bklyn) New York City
MURPHY, EDWARD JOHN, A.B., <i>Holy Cross</i> .....	(Bklyn) New York City
MYRES, MAGNUS JACOB.....	(Mhnt) New York City
NEEF, FREDERICK EMIL, B.S., B.L., M.L., <i>Notre Dame University</i> ....	Springfield, Ill.
NOBLE, URBANE ALEXANDER.....	(Mhnt) New York City
O'CONNOR, JOHN CHARLES.....	Rochester, N. Y.
O'CROWLEY, CLARENCE RUTHERFORD.....	Newark, N. J.
O'LEARY, WILLIAM JOSEPH.....	Canandaigua, N. Y.
PADDOCK, BRACE WHITMAN, A.B., <i>Yale</i> .....	Pittsfield, Mass.
PENTZ, JAMES BOLTON.....	(R) New York City
PETERS, JOHN DODGE, A.B., <i>Yale</i> .....	Great Barrington, Mass.
PILCHER, JAMES TAFT, A.B., <i>University of Michigan</i> .....	(Bklyn) New York City
PINCUS, WILLIAM.....	(Bklyn) New York City
RINGER, PAUL HENRY, A.B., <i>Columbia</i> .....	(Mhnt) New York City
ROBINSON, ROBERT CORNELIUS, Ph.B., <i>Brown</i> .....	Providence, R. I.
ROSE, JULIUS TOWNSEND.....	Stephentown, N. Y.
ROSS, EDWARD KINGSBURY, Ph.G., <i>New York College of Pharmacy</i> ....	Hoboken, N. J.
ROSS, WILLIAM HOLMES.....	(Bklyn) New York City
SARTORI, ANTONIO JOSEPH.....	(Mhnt) New York City
SAUNDERS, TRUMAN LAURENCE, A.B., <i>Williams</i> .....	(Mhnt) New York City
SCHENCK, GEORGE HENRY, Ph.B., <i>Lafayette</i> .....	East Hampton, N. Y.
SCHLIVK, KAUFMAN, B.S., <i>N. Y. City College</i> .....	(Mhnt) New York City
SCHÜCK, TRAUGOTT JOHN.....	Hoboken, N. J.
SHERMAN, ARTHUR LEIGHTON, A.B., <i>Yale</i> .....	Castleton, Vt.
SILLIMAN, JOHN CALVIN, A.B., <i>University of Virginia</i> .....	Palestine, Tex.
SLACK, JOSEPH DANIEL.....	Litchfield, Conn.
SMITH, ELLSWORTH JOHNSON, Ph.B., <i>Yale</i> .....	North Haven, Conn.
SPRAGUE, CHARLES HARRY.....	Peterboro, N. H.
STETSON, DUDLEY DONNELLY.....	(Mhnt) New York City
STEVENS, CAROL TEFFT, B.S., <i>Iowa State College</i> .....	New Rochelle, N. Y.
STEWART, VERNON CHAMPNEY, A.B., <i>Columbia</i> .....	(Mhnt) New York City
STILLMAN, CHARLES KIRTLAND, Ph.B., <i>Brown</i> .....	Mystic, Conn.
TALMAGE, JOHN BEEKMAN, Jr.....	(Mhnt) New York City
TASCHMAN, MAX, A.B., <i>N. Y. City College</i> .....	(Mhnt) New York City
THOMAS, JOSEPH SIMON, A.B., <i>Princeton</i> .....	Dunellen, N. J.
THOMAS, MERRICK DOWDELL, B.S., <i>Alabama Polytechnic Institute</i> ....	Gold Hill, Ala.
VANAMEE, TALCOTT OSTROM, A.B., <i>Hamilton</i> .....	Newburgh, N. Y.
VANDEMBERG, JOSEPH.....	(Mhnt) New York City
VANDER VEER, ALBERT, Jr., A.B., <i>Yale</i> .....	Albany, N. Y.
VAUGHAN, HAROLD STEARNS, D.D.S., <i>Univ. of Penn.</i> .....	(Mhnt) New York City
WAINWRIGHT, JOHN MAXON BROWN.....	Brielle, N. J.

WALSER, CARL WILLIAM.....	(R) New York City
WARD, ALBERT H.....	Paterson, N. J.
WARD, EDWIN ST. JOHN, A.B., <i>Amherst</i> .....	Amherst, Mass.
WARD, RALPH FRANCIS.....	(Mhtn) New York City
WARD, WILBUR, A.B., <i>Williams</i> .....	Bloomfield, N. J.
WATERMAN, WILLIAM WHITNEY.....	Greenwich, Conn.
WEINSTOCK, LOUIS.....	(Mhtn) New York City
WEIR, CLAUD HILL.....	Raleigh, N. C.
WHEELER, JAMES ALEXANDER.....	Skaneateles, N. Y.
WHITON, WALTER HUMSTONE.....	(Bklyn) New York City
WIENER, SOL, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
WILSON, FREDERIC HART.....	(Bklyn) New York City
WISE, FRED.....	(Mhtn) New York City
WISE, LESTER DRUMMOND.....	(Bklyn) New York City
WOODRUFF, ISAAC OGDEN, JR., A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
WOODSON, CHARLES WHITEHEAD, A.B., <i>Columbia</i> .....	Salisbury, N. C.
WYNNE, SHIRLEY WILMOTE.....	(Mhtn) New York City
YORK, HARRY JACOB, B.S., <i>Pennsylvania State College</i> .....	Warriorsmark, Pa.
ZELENGO, DAVID.....	(Bklyn) New York City
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## SECOND YEAR CLASS

AGOSTINI, VICTORIANO DIEGO Y GODOY, A.B., <i>Provincial Institute, Santiago</i> , Santiago, Cuba	
ALEXANDER, GEORGE MORTIMER.....	(Mhtn) New York City
ALLERS, CHARLES LAWRENCE.....	(R) New York City
ARMSTRONG, EDGAR BOND.....	Paterson, N. J.
AUCHINCLOSS, HUGH, A.B., <i>Yale</i> .....	(Mhtn) New York City
AUERBACH, JULIUS.....	(Mhtn) New York City
BALL, CHARLES EDWARD AUGUSTINE.....	South Orange, N. J.
BARKER, PERCEVAL MARTIN.....	(Mhtn) New York City
BARRETT, FREDERICK JAMES.....	(Bklyn) New York City
BARTLETT, FREDERIC HUNTINGTON, A.B., <i>Harvard; A.M., Columbia</i> , Fayetteville, N. Y.	
BARTLETT, LAWRENCE STEWART, A.B., <i>Princeton</i> .....	New Richmond, Wis.
BARTOW, CLARENCE WHITTEMORE, A.B.....	(Q) New York City
BAUMGARD, HANS GEORGE, B.S., <i>New York University</i> .....	(Mhtn) New York City
BENNETT, JOHN ALBERT.....	(Mhtn) New York City
BERNSTEIN, LUIS PHILLANDUS, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
BLACK, ROSS ELIOTT.....	Huntingdon, Penn.
BOCKSHITZKY, BENJAMIN JOSEPH.....	(Mhtn) New York City
BONIME, ELLIS.....	(Mhtn) New York City
BONYNGE, HENRY ARTHUR, JR.....	Hoboken, N. J.
BOURKE, JOHN FRANCIS.....	(Mhtn) New York City
BOYD, CARLISLE STORM.....	(Br) New York City.
BOYD, WILLIAM BALLANTINE, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
BRADY, JOHN STANISLAUS, A.B., <i>Georgetown University</i> .....	(Mhtn) New York City
BRANCATO, PETER.....	(Mhtn) New York City
BRAUN, JACOB.....	(Mhtn) New York City
BROWN, ROBERT MERIDA, A.B., <i>Harvard</i> .....	Lamar, Mo.
BRUNDAGE, PHILIP EDWIN, A.B., <i>Princeton</i> .....	Hoboken, N. J.
BRUNING, HENRY FREDERICK.....	(Bklyn) New York City
BRYANT, MASON DAVID.....	Lowell, Mass.
BUCONS, LOUIS.....	(Mhtn) New York City
CHAMBERLAIN, AMIS READING, A.B., <i>Yale</i> .....	Warwick, N. Y.
CHILDS, JOHN HENRY.....	Paterson, N. J.
CLARK, LOUIS VINCENT.....	Pawtucket, R. I.
COHEN, HERMAN.....	(Br) New York City

COHEN, LOUIS.....	(Bklyn) New York City
COLIE, EDWARD MARTIN, Jr., A.B.....	E. Orange, N. J.
CONLON, PATRICK JOSEPH, A.B., <i>Holy Cross</i> .....	Worcester, Mass.
CORCORAN, DAVID.....	Thompson Ridge, N. Y.
CORDNER, ROBERT, Ph.G., <i>N. Y. College of Pharmacy</i> .....	Middletown, N. Y.
COTTLE, GEORGE FRANKLIN, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
CRONIN, EUGENE JOHN.....	Worcester, Mass.
DAVID, CHARLES THOMAS.....	(Mhtn) New York City
DEKLYN, CHARLES CAMPBELL.....	(Mhtn) New York City
DEROW, DAVID.....	(Mhtn) New York City
DICKINSON, FRANCIS McLEAN, Ph.B., <i>Yale</i> .....	Rockville, Conn.
DODD, SAMUEL WARD, B.S., <i>Princeton</i> .....	Newark, N. J.
DRISCOLL, GEORGE CORNELIUS.....	Stanley N. Y.
DWIGHT, KIRBY, A.B., <i>Princeton</i> .....	(Mhtn) New York City
EMORY, GEORGE BACHE, A.B., <i>Harvard</i> .....	Syracuse, N. Y.
FIASCHI, PIERO.....	Sydney, Australia
FRANKEL, EDWARD, Jr.....	(Mhtn) New York City
FRIEDMAN, HENRY MENDEL.....	(Mhtn) New York City
FRITTS, HERBERT HAROLD, A.B., <i>Oberlin</i> .....	Bradford, Pa.
FRUCHTHANDLER, EDWARD ALFRED.....	(Mhtn) New York City
GASKINS, JOHN DARBY.....	Starke, Fla.
GERSTER, JOHN CARL ARPAD, A.B.....	(Mhtn) New York City
GINSBURGH, EDWARD LYON.....	(Mhtn) New York City
GOLDFARB, SAMUEL JESSE.....	(Mhtn) New York City
GRAHAM, HENRY FLACK.....	Albany, N. Y.
HABERMAN, JULIUS VICTOR.....	(Mhtn) New York City
HAGEN, ORVILLE REED.....	Troy, N. Y.
HAMBURGER, GABRIEL, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
HARBECK, CHARLES JOHN, A.B., <i>Harvard</i> .....	(Mhtn) New York City
HARRIGAN, ANTHONY HART.....	(Bklyn) New York City
HARRIS, LOUIS ISRAEL.....	(Mhtn) New York City
HART, FRANCIS BERNARD.....	Passaic, N. J.
HARWICH, MOSES.....	(Mhtn) New York City
HAYS, HAROLD M.....	(Mhtn) New York City
HEIMANN, WALTER JAMES, A.B., <i>Columbia</i> .....	(Mhtn) New York City
HEIN, THEODORE LEACRAFT.....	(Mhtn) New York City
HEINE, JOSEPH.....	(Mhtn) New York City
HELLMAN, ALFRED MYER, A.B.....	(Mhtn) New York City
HITLIN, ALEXANDER.....	(Bklyn) New York City
HOLLAND, HARRY STEERS, A.B.....	(Mhtn) New York City
HUNT, CHARLES SPAULDING.....	Brooklyn, Conn.
HUTCHESON, ALLEN CARRINGTON, A.B., <i>University of Virginia</i> .....	Houston, Tex.
HUTCHINSON, ROBERT HAMILTON, Jr.....	(Mhtn) New York City
HUTTON, ARTHUR LEFFERTS.....	(Mhtn) New York City
HYAMS, JOSEPH ANDREW.....	(Mhtn) New York City
HYMAN, ABRAHAM.....	(Mhtn) New York City
HYMAN, DAVID ELLIOTT.....	(Mhtn) New York City
ISKOWITZ, HENRY.....	(Mhtn) New York City
JACKSON, ALBERT F.....	Campgaw, N. J.
JAPPIN, ABRAHAM EZRA.....	Jersey City, N. J.
JAMESON, JAMES WALKER, A.B., <i>Princeton</i> .....	Antrim, N. H.
JOHNSTON, MARIUS EARLY, B.S., M.S., <i>Kentucky State College</i> .....	Lexington, Ky.
JOYCE, EDWARD RAPHAEL, A.B., <i>Holy Cross College</i> .....	Lewiston, Me.
KAEMPFER, LOUIS GABRIEL, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
KALISKI, DAVID JOHN.....	(Mhtn) New York City
KANTER, JOSEPH BERNARD.....	(Mhtn) New York City
KAUNITZ, JULIUS.....	(Mhtn) New York City
KELLER, JACOB ADLAI.....	(Mhtn) New York City

KELLER, SIDNEY CLARENCE.....	Newark, N. J.
KEUNE, HARRY.....	(Mhtn) New York City
KOFF, JAMES JESSAI.....	(Mhtn) New York City
KOHN, BERNARD.....	(Mhtn) New York City
KRUMWIEDE, CHARLES, JR., A.B.....	(Mhtn) New York City
KURPICK, CONRAD FREDERICK, A.B., <i>St. Peter's College</i> .....	Paterson, N. J.
KUTSCHER, MARTIN.....	(R) New York City
LATTA, JEFFERSON BROWN.....	Friendship, N. Y.
LESLIE, CHARLES THOMAS, B.S., <i>Massachusetts Agricultural College</i>	
	(Bklyn) New York City
LEVANT, HARRY LAZAROUS.....	(Mhtn) New York City
LEVIN, CHARLES.....	(Mhtn) New York City
LEVY, HARRY, A.B., <i>University of Alabama</i> .....	Johns, Ala.
LEWIN, FRANK SPALDING.....	(Bklyn) New York City
LEWIS, MURNEY EDWARD.....	Voleny, N. Y.
LINDSAY, GORDON, B.S., <i>Columbia, Ph.G., N. Y. College of Pharmacy</i>	
	(Mhtn) New York City
LIPSCHUTZ, JACOB M.....	(Mhtn) New York City
MC COY, THOMAS CRESAP.....	Kirkwood, Del.
McCROSKERY, JAMES HARRY.....	Union, N. J.
MCDERMOTT, JOSEPH ZIMMERMANN.....	Freehold, N. J.
MABEY, J. CORWIN.....	Montclair, N. J.
MACDONALD, ARTHUR FRANCIS.....	Waterbury, Conn.
MACINTYRE, CLIFFORD BURNETT, A.B.....	(Mhtn) New York City
MARCULIES, ALBERT CARLYLE.....	(Bklyn) New York City
MARTIN, NATHAN BARNERT.....	Paterson, N. J.
MARTLAND, HARRISON STANFORD, A.B., <i>Western Maryland College</i> .....	Newark, N. J.
MEINZER, MARTIN STOETZEL, B.S., <i>Rutgers</i> .....	South Amboy, N. J.
MELONY, LESTER FOYE.....	Clifton, N. J.
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MERRIMAN, MERRITT HEMINWAY, A.B., <i>Yale</i> .....	Watertown, Conn.
MEYER, HARRY AHREND.....	(Mhtn) New York City
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NEUHOF, HAROLD.....	(Mhtn) New York City
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NEWMAN, REUBEN.....	(Mhtn) New York City
NISSELSON, MAX.....	(Mhtn) New York City
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TITSWORTH, SYDNEY ROSS, B.S., <i>Alfred University</i> .....	Plainfield, N. J.
TOWNSHEND, RAYNHAM, Ph.B., <i>Yale</i> .....	New Haven, Conn.
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ZIGLER, MAX.....	(Mhtn) New York City
Second Year Class..... 205	

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BICKELHAUPT, BERTRAM.....	(Mhtn) New York City
BIRDSALL, CLARENCE ATHERTON.....	Jersey City, N. J.
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FELBERBAUM, DAVID.....	(Mhtn) New York City
FINK, MORRIS.....	(Mhtn) New York City
FISCHER, HENRY ARCHIBOLD.....	(Mhtn) New York City
FISHER, CHARLES FRANK.....	(Bklyn) New York City
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GOLDBERGER, LEWIS ARTHUR, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
GOLDENWEISER, ALEXANDER, A.B., <i>Columbia</i> .....	Kiew, Russia
GOLDMAN, ALEXANDER, Ph.G., <i>N. Y. Coll. of Pharmacy</i> .....	(Mhtn) New York City
GORDON, DONALD, Jr.....	(Bklyn) New York City



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HARDY, RUSSELL.....	Norfolk, Va.
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HARRIS, HARRY BLATT.....	Orange, N. J.
HART, LEONARD, B.S., <i>Millsaps College</i> .....	Jackson, Miss.
HENRY, MORRIS WALGROVE.....	(Bklyn) New York City
HENSCHER, LOUIS KAUFMAN.....	(Mhtn) New York City
HENSSELER, FREDERICK MARCUS.....	(Mhtn) New York City
HILLENBRAND, FREDERICK LOUIS.....	(Mhtn) New York City
HIRSDANSKY, SIMON, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
HOHNHOLZ, MARTIN ERNEST.....	(Mhtn) New York City
HOLT, CHARLES JOSEPH.....	Newton Heights, Mass.
HOLZMAN, ARTHUR CHESTER.....	(Bklyn) New York City
HOWELL, ERNEST TITUS DEAN.....	(Mhtn) New York City
HOWLAND, DE RUYTER.....	New Rochelle, N. Y.
HUNT, J. JAY.....	Bayonne, N. J.
HUSTON, HENRY WILLIAM, A.B., <i>Princeton</i> .....	Newton, N. J.
HUYCK, RALPH PRYNE.....	Herkimer, N. Y.
INFANTE Y FAJARDO, JOSÉ MIGUEL, A.B., <i>Provincial Institute, Santiago</i> , Santiago, Cuba	
ITTELSON, MAX.....	(Mhtn) New York City
JANÉ, ALBERTO CHRISTOBAL, A.B., <i>Provincial Institute, Santiago</i> ... Guantanamo, Cuba	
JOELSON, MORRIS SAMUEL.....	Paterson, N. J.
JOHNSON, FREDERICK A.....	(Mhtn) New York City
KAUFMAN, IGNATZ.....	(Mhtn) New York City
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KIMBALL, PAUL WELLINGTON, A.B., <i>Amherst</i> .....	(Mhtn) New York City
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KOBLER, EARL WILLIS.....	Upper Montclair, N. J.
KOEMPEL, JOHN ADAM.....	(Mhtn) New York City
LANDESMAN, ISIDOR LOUIS.....	(Mhtn) New York City
LANDSMAN, ISIDORE JOSEPH, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
LARKIN, ARTHUR GABRIEL, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
LASHER, FRANK HERMANCÉ.....	Poughkeepsie, N. Y.
LAWLER, MICHAEL JOSEPH, A.B., <i>Holy Cross</i> .....	Waterbury, Conn.
LEBOWITZ, EMANUEL FREDERICK, B.S., <i>N. Y. City College</i> ....	(Mhtn) New York City
LEDERER, MAX.....	(Bklyn) New York City
LEE, WILLIAM RUMFITT, Jr.....	Troy, N. Y.
LEONARD, HENRY GRANT.....	Elizabeth, N. J.
LEVENE, SAMUEL ARCHIBALD.....	(Mhtn) New York City
LEVINE, BENJAMIN MEYER.....	(Mhtn) New York City
LEWIS, HOWARD TAYLOR, B.S., <i>Alfred University</i> .....	Ashaway, R. I.
LIEB, CHARLES CHRISTIAN, A.B., <i>Columbia</i> .....	(Mhtn) New York City
LIESENFELD, ABRAHAM ISAAC.....	(Mhtn) New York City
LINDEMAN, HOWARD EDWARD.....	(Mhtn) New York City
LO-FORTE, LOUIS.....	(Mhtn) New York City
LOVE, TRACY ROBINSON, Ph.B., <i>Columbia</i> .....	Denver, Colo.
LYON, EDWARD CRANE, Jr., A.B., <i>Princeton</i> .....	Montclair, N. J.
LYON, WALTER LESTER, A.B., <i>Yale</i> .....	(Mhtn) New York City
MCALBER, DANIEL ALOYSIUS.....	Paterson, N. J.
MCCARTHY, CHARLES ALOYSIUS.....	Lawrence, Mass.
MCCORMACK, WILLIAM GUILDING, Jr.....	(Mhtn) New York City
McKALLAGAT, PETER LEO.....	Lawrence, Mass.

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MONTY, ADELBERT HOWARD.....	Holyoke, Mass.
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NORDIN, GOSTA ANREP, A.B., <i>State College of Wenmersborg, Sweden</i> , (Mhtn) New York City	
OBERWAGER, JOHN, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
OLIN, RAYMOND HARVEY.....	(Mhtn) New York City
OPPENHEIMER, FREDERIC GOLDING, A.B., <i>Columbia</i> .....	San Antonio, Texas
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SCRUTON, WILLIAM ALFRED.....	(Mhtn) New York City
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SPICKERS, WILLIAM, JR.....	Paterson, N. J.
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STRAIN, WILLIAM PETER.....	New Rochelle, N. Y.
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THUNIG, LOUIS ALBERT.....	(Bklyn) New York City
TRUESDELL, EDWARD DELAVAN, A.B., <i>Princeton</i> .....	(Bklyn) New York City
VAIL, CHARLES EDWARD, A.B., <i>Princeton</i> .....	Newark, N. J.
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VOORHEES, HOWARD CROSBY, A.B., <i>Princeton</i> .....	New Brunswick, N. J.
VREELAND, RALPH DOREMUS.....	Paterson, N. J.
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WATKINS, EDWIN DIAL, B.S., <i>University of Virginia</i> .....	Chattanooga, Tenn.
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CRUDDEN, FRANCIS.....	(Mhtn) New York City
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GARDNER, EDWARD WINSLOW, Ph.G., <i>N. Y. Coll. of Pharmacy</i> .....	(Mhtn) New York City
HAYLEY, JOHN AUGUSTA.....	Jersey City, N. J.
HIRSCH, HENRY.....	(Mhtn) New York City
HOPP, HOWARD CROSBY.....	(Mhtn) New York City
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LEE, STEPHEN GIRARD, M.D., <i>Bellevue Hospital Medical College</i> .....	East Orange, N. J.
LUSE, PERCY BRADFORD, M.D., <i>Tulane Univ., La.</i> .....	Jackson, Tenn.
NARWOOD, HOLMES MONTGOMERY.....	(Mhtn) New York City
PORTER, JOSEPH YATES, Jr.....	(Mhtn) New York City
ROSENFELD, ROBERT.....	(Mhtn) New York City
RUSSELL, FREDERICK FULLER, M.D., <i>Columbia</i> .....	(Bklyn) New York City
SINCLAIR, ARTHUR LIVINGSTON.....	(Mhtn) New York City
WEISLOWITZ, MAX.....	(Mhtn) New York City
Special Students.....	19

## SUMMARY

Fourth Year Class.....	171
Third Year Class.....	181
Second Year Class.....	205
First Year Class.....	201
Special Students.....	19
Total.....	777
Seniors from Columbia College.....	2

SCHOOL OF MINES  
SCHOOL OF CHEMISTRY  
SCHOOL OF ENGINEERING

UNDER THE DIRECTION OF THE FACULTY OF APPLIED  
SCIENCE

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The following departments are represented in the Faculty:

ASTRONOMY	MATHEMATICS
CHEMISTRY	MECHANICS
CIVIL ENGINEERING	METALLURGY
ELECTRICAL ENGINEERING	MINERALOGY
MECHANICAL ENGINEERING	MINING
GEOLOGY	PHYSICS

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**Officers of the Faculty**

FREDERICK R. HUTTON, C.E., Ph.D. . . . *Dean of the Faculty, and ex-officio Member of the University Council*  
 ROBERT PEELE, E.M. . . . . *Secretary of the Faculty*  
 HENRY S. MUNROE, E.M., Ph.D., *Elected Delegate to the University Council*

**Standing Committees**

COMMITTEE ON ADMINISTRATION: Professors Hutton, Van Amringe, Howe, Crocker, Bogert  
 COMMITTEE ON ADMISSIONS: Professors Hallock, Maclay, and Sever

**The Faculty**

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*  
 CHARLES F. CHANDLER, Ph.D., M.D., LL.D., Sc.D. . . . . *Professor of Chemistry*  
 J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D. . . . . *Professor of Mathematics*  
 HENRY S. MUNROE, E.M., Ph.D. . . . . *Professor of Mining*  
 FREDERICK R. HUTTON, C.E., Ph.D. . . . . *Professor of Mechanical Engineering and Dean of the Faculty*  
 JOHN KROM REES, E.M., Ph.D. . . *Professor of Astronomy and Director of the Observatory*

ALFRED J. MOSES, E.M., Ph.D. ....	Professor of Mineralogy
JAMES F. KEMP, A.B., E.M. ....	Professor of Geology
ROBERT PEELE, E.M. .	Adjunct Professor of Mining and Secretary of the Faculty
WILLIAM HALLOCK, Ph.D. ....	Professor of Physics
FRANCIS B. CROCKER, E. M., Ph.D. .	Professor of Electrical Engineering
MICHAEL I. PUPIN, Ph.D. ....	Professor of Electro-Mechanics
WILLIAM H. BURR, C.E. ....	Professor of Civil Engineering
ROBERT S. WOODWARD, C.E., Ph.D. ....	Professor of Mechanics and Mathematical Physics
HAROLD JACOBY, Ph.D. ....	Adjunct Professor of Astronomy
BASHFORD DEAN, Ph.D. ....	Adjunct Professor of Zoölogy
LUCIEN MARCUS UNDERWOOD, Ph.D. ....	Professor of Botany
HENRY M. HOWE, A.M., S.B. ....	Professor of Metallurgy
CHARLES E. PELLEW, E.M. ....	Adjunct Professor of Chemistry
EARL B. LOVELL, C.E. ....	Adjunct Professor of Civil Engineering
WILLIAM LEDYARD CATHCART. ....	Adjunct Professor of Mechanical Engineering
CHARLES R. RICHARDS, B.S. . . .	Professor of Manual Training, Teachers College
GEORGE FRANCIS SEVER. . . .	Adjunct Professor of Electrical Engineering
JAMES MACLAY, C.E., Ph.D. ....	Adjunct Professor of Mathematics
EDMUND HOWD MILLER, Ph.D. ....	Adjunct Professor of Analytical Chemistry and Assaying
MARSTON TAYLOR BOGERT, A.B., Ph.B. .	Adjunct Professor of Organic Chemistry
J. LIVINGSTON RUTGERS MORGAN, Ph.D. .	Adjunct Professor of Physical Chemistry
AMADEUS W. GRABAU, S.D. ....	Adjunct Professor of Palæontology

### UNIVERSITY COURSES

The Faculty of Applied Science has charge of candidates for the degrees of Master of Arts and Doctor of Philosophy who desire to undertake advanced study or special investigations in mining, metallurgy, or in engineering (civil, sanitary, electrical, and mechanical). Information as to these higher degrees will be found on pages 202-208, and in the departmental statements, as follows:

Civil Engineering, page 83	Metallurgy, page 138
Electrical Engineering, page 100	Mining, page 143
Mechanical Engineering, page 128	

The University courses in Anatomy; Astronomy; Bacteriology; Botany; Chemistry, Analytic, Organic, and Industrial; Geology, including Lithology and Palæontology; Mathematics; Mechanics and Electro-Mechanics; Mineralogy; Physics; Physiological Chemistry; Physiology; Zoölogy, are under the charge of the Faculty of Pure Science.

### PROFESSIONAL COURSES

The Faculty of Applied Science has charge of the following schools:

1. The SCHOOL OF MINES, with four-year courses leading to the degrees of Engineer of Mines and Metallurgical Engineer.
2. The SCHOOL OF CHEMISTRY, with four-year courses in Analytical, Industrial, and Organic Chemistry, leading to the degree of Bachelor of Science.
3. The SCHOOL OF ENGINEERING, with four-year courses in Civil Engineering, Sanitary Engineering, Electrical Engineering, and Mechanical Engineering, the first two leading to the degree of Civil Engineer, and the others to the degree of Electrical Engineer and Mechanical Engineer, respectively.

Full particulars regarding each of these courses of study are contained in special Bulletins of Information, which will be forwarded on application to the Secretary of the University.

These courses are intended to meet the requirements of the several professions indicated. Many of the courses permit a certain amount of specialization, particularly in the fourth year. The courses in the School of Mines are so arranged that the student can emphasize the engineering, the metallurgical, or the geological side of his profession, while one of the alternative courses in Mechanical Engineering is designed for those who wish to make a specialty of mine plant and machinery. A course in Sanitary Engineering (leading to the degree of Civil Engineer) is provided for those who wish to prepare themselves for this important branch of civil engineering. The Mechanical Engineering course offers five alternatives in the fourth year, emphasizing, respectively, the dynamic, the electrical, the mining, the marine, and the locomotive sides of the mechanical engineer's work. Three courses are offered in Chemistry, for analytical chemists, industrial chemists, and organic chemists, respectively.

### Modifications of Regular Courses

Under proper restrictions, and for reasons of weight, a student will be permitted to substitute one study for another in any of the regular courses (see By-Law 2). By taking advantage of this provision students can fit themselves for special or unusual lines of professional work without losing their degree.\*

### ADMISSION

The Committee on Admissions of the Schools of Applied Science has charge of everything relating to this subject.

Candidates for admission to the first-year class, at its formation, must be at least eighteen years of age, and for admission to advanced standing there is required a corresponding increase of age;

\* It is particularly recommended, for example, that students whose professional work is likely to take them to Spanish America should arrange for a proper course in the Spanish language.

but this rule may be dispensed with when, in the opinion of the Dean, there are sufficient reasons to justify its relaxation.

Every candidate must, before admission, present a certificate of good moral character from his last teacher, or from some citizen in good standing, and students from other institutions must bring certificates of honorable dismissal.

### Requirements for Admission

Every candidate for admission to the first-year class is required at the entrance examinations (see pages 185-202) to offer subjects amounting to fifteen points \* as indicated below.

The candidate *must* offer:

Mathematics, elementary and advanced (page 199).....	counting 4 points
Elementary Physics (page 200).....	1 point
Chemistry (page 189).....	1 "
Freehand Drawing (page 190).....	1 "
English (page 190).....	3 points
Elementary History (page 197).....	1 point
Elementary German (page 194).....	2 points

and two points from one of the following subjects:

Elementary French (page 192).....	2 points
Spanish (page 201).....	2 "
Elementary Latin (page 198).....	2 "

### Certificates in Lieu of Entrance Examinations

The Schools of Applied Science in general accept, in lieu of University entrance examinations, no credentials of any sort except the Regents' Academic Diploma† and the certificates of universities and colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All credentials offered in lieu of entrance examinations must be sent to the chairman of the Committee on Admissions of the Schools of Applied Science at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are

\* The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

† Every Regents' Academic Diploma is considered as covering the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in French unless it covers a two-years' high-school course in French as recognized by the Regents. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in German unless it covers a two-years' high-school course in German. In the case of the natural sciences, a Regents' Academic Diploma will not be accepted for the required laboratory work

accepted in whole or in part will be posted on the Bulletin Board at least one day in advance of the beginning of the examinations.

The separate pass-cards, and the several other certificates issued by the Regents of the State of New York, are not accepted in lieu of examinations.

The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the School of Applied Science.

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Report of Entrance Examinations

The Committee on Admissions will report to the Dean not later than one week after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, or who must present themselves for re-examination in September, and of those who have been rejected, and, not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

Except for reasons of weight, satisfactory to the Committee on Admissions, the results of an entrance examination will not be allowed to stand to the credit of a candidate for a longer period than sixteen months.

### Admission to Advanced Standing

Graduates of colleges or scientific schools are admitted to advanced standing in any of the regular professional courses, as candidates for a degree. Such students are given credit for all courses of which they have had the substantial equivalent, and are permitted to take any course of study for which they are qualified. The lecture hours are so arranged that such students can generally fulfil all the requirements for a degree in one or two years. If possible, such men should make arrangements to attend, before entrance, the required summer classes of the course which they intend to take.

Candidates for admission from other universities or colleges and those desiring to be admitted to advanced standing on examination must make application in writing to the Chairman of the Committee on Admissions. Proper blanks for the purpose may be obtained from the Secretary of the University. These should be returned when filled out, accompanied by a catalogue of the institution from which the transfer is to be made, in which the applicant has distinctly marked the courses which he has completed and the subjects which he offered for admission. The application should be made at least one week before the first day of the September entrance examinations.



Each candidate for a degree seeking admission to advanced standing must show that he has attained proficiency in the equivalents of:

1. The requirements for admission to the first-year class.
2. All the prescribed studies already pursued by the class to which he seeks admission.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for a professional degree until he shall have brought all his studies up to the point required for that degree.

Each candidate from another university or college is expected to furnish official statements of his record in his various studies, and letters or other evidence showing the opinion of his instructors in regard to his scholarship and character.

No applicant will be allowed to enter the fourth-year class as a candidate for a degree after October 15 in any year.

### **Special Students**

Graduates of the School of Mines, the School of Chemistry, the School of Engineering, and of other institutions of like grade and standing, may pursue any subjects taught in the schools for which they are properly qualified.

Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is unable to meet the regular entrance requirements, or who has, within ten months of the time of his application, been rejected as a regular student, or has, within that period, become deficient as a regular student. No one will be admitted as a special student who wishes merely to pursue elementary subjects included among the requirements for admission to the College or Schools of Applied Science.

### **Matriculation, Registration, and Enrolment**

For the regulations prescribed for all students, see page 18. For such further regulations as may be prescribed for the students of the Schools of Applied Science, see the Circular of General Information for 1903-04.

### **Fees**

(See page 19)

### **By-Laws**

NOTE.—In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

1. No student is allowed to be a candidate for more than one of the professional degrees at the same time.

2. For reasons of weight the substitution of a subject in any professional course for an approved equivalent may be made by the Dean on the request of any candidate for a degree, provided that such substitution have the approval of the heads of the departments concerned and of the department giving the technical instruction that leads to the degree for which the student is a candidate.

3. Prompt and regular attendance is required of every student upon the exercises and examinations of the courses for which he is enrolled.

4. The instructor in each subject shall keep a careful record of the attendance, and, as far as practicable, of the scholarship of all students entitled to attend that subject. It shall be the duty of the instructor to warn any student found deficient in scholarship or irregular in attendance, and if such deficient scholarship or irregular attendance continue thereafter, he shall report his name through the head of the department to the Dean.

5. Any student so reported may be put upon probation by the Dean, or debarred by him from examination after due opportunity for personal explanation.

6. The Dean may also debar from examination in any subject any student reported to him as having incurred, with or without good reason, absences so numerous that, in the judgment of the head of the department concerned, it has become essential that he should repeat that subject; and any student so debarred shall not be admitted to examination in that subject until he has attended the full course therein.

7. By special permission of the Dean, with the concurrence of the head of the department concerned, students may attend exercises not required in the class or subject to which they belong, provided that such attendance does not interfere with the required exercises of their class. Such students are held to the same rules as to attendance and examination in their extra studies as in the required studies of their class.

8. Any student who shall have passed a satisfactory examination in Columbia College in any study forming a part of one of the professional courses in the Schools under the Faculty of Applied Science will not be required to pursue that study a second time.

### **Examinations and Standing**

9. Examinations will be held at the end of the first half-year (mid-year), or at the end of the year (final). Examinations for students debarred or deficient at the regular examinations will be held during the two weeks preceding the opening of the first half-year, and for members of the fourth class only, and for subjects belonging to

that year only, in the first week in May. In the case of subjects and courses which require the use of collections and apparatus the delinquent examination will be held during the week following the holidays at Christmas.

10. A student found deficient in a subject at any of the stated examinations above provided will not be allowed a special examination in that subject.

11. A student absent from the regular mid-year, final, or delinquent examinations will be considered to have failed to pass that examination, and will not be allowed a special examination in that subject, except that, if the absence was due to unavoidable circumstances, the Dean may, on proper written certification of these circumstances, grant a special examination.

12. The fee for special examination is \$5.00, which must be paid by the student before being admitted to the examination. If a student has special examinations in several subjects granted to him under one permit from the Dean specifying each subject, one fee of \$5.00 shall cover them all.

13. Every officer, after the stated examinations have been held, shall report to the Registrar a list of all students who have attended his instruction, indicating their proficiency by numbers on a maximum of 10, a mark below 6 constituting a failure to pass. A student reported in grade 6 in a majority of the subjects pursued by him in any year, and not reported in grade 8 or higher in the greater part of the remainder of such subjects, will not be permitted to go on with his class without the consent of the Dean and the head of the department giving the technical instruction that leads to the degree for which the student is a candidate. This consent will be given only for reasons of weight, but the student may enter the next succeeding class and pursue such subjects as may be required of him. Each student's record will be transmitted to him at the close of each year.

14. Any student who shall fail to pass in any of his studies at the regular mid-year or final examinations shall present himself for a second examination as above provided in By-Law 9; failing to pass in this second examination he shall be dropped from his class and required to repeat the subject with the next following class, but the Dean may exercise his discretion in excusing him from attendance on the exercises of such a subject, holding him to such other requirements as may seem advisable; failing a third time to pass a satisfactory examination in any study, his name shall be dropped from the roll of the school. A student so dropped shall have the right of appeal to the Faculty.

15. Students shall be enrolled in the class in which at least 75 % of their hours are taken; provided, however, that no student shall be advanced from the first to the second class who has any entrance condition in mathematics, chemistry, or physics; no student shall be advanced to the third class who has any entrance conditions or any

deficiencies of the first year; no student shall be admitted to the fourth class who has any deficiency in the first or second year, or more than one deficiency in the third year. A student dropped from the roll of his class shall not be permitted to attend any of the exercises of the said class without the consent of the Dean given for reasons of weight.

16. Students failing in any subject shall not be permitted to take advanced studies for which, by reason of such deficiency, they are not prepared; nor will such students be allowed to attend any Summer Course without permission of the Dean.

17. Students who have received one degree and make application for another in the Schools of Applied Science must comply with all the requirements for that degree in force at the date of application.

### **Memoirs and Summer Work**

18. During the vacations following the close of each year, memoirs on subjects, which will be assigned, are required of students in the courses of civil engineering, electrical engineering, mechanical engineering, of analytical, industrial, and organic chemistry, and of architecture. The time specified for the completion and handing in of memoirs in chemistry and electrical engineering is November 1st of each year; for other memoirs and summer work the time specified is the second Monday in October.

19. Students of the second, third, and fourth classes who fail to hand in the memoirs, drawings, and other summer work required of them under the rules by a specified time, shall not be permitted to hand them in until the beginning of the next academic year, and failing in this latter requirement they shall be dropped from the roll of the class. This requirement may be waived, for reasons of weight, in the case of students of the fourth class.

### **Special Students**

20. Graduates of the School of Mines, the School of Chemistry, the School of Engineering, and the School of Architecture, and of other institutions of like grade and standing, may pursue any subjects taught in the schools for which they are properly qualified.

21. Persons of mature age who are not graduates, but who show special qualifications, are sometimes permitted to pursue special courses, but this permission is not given to others.

### **Laboratories and Drawing Rooms**

22. No student will be allowed without permission in a laboratory or drawing room at a time when his attendance there is not due. During hours assigned for practical work in the laboratories and drawing rooms, the attendance of students is required.

### Elective Courses Open to Students in the College

All the studies of the first year, and many of the second-year courses of the School of Mines, the School of Chemistry, the School of Engineering, are included among the electives offered to students of Columbia College.

Any and all of the studies of the second year in the above schools are open to members of the senior class in the College who are properly qualified.

By a judicious arrangement of his course of study from the beginning, a graduate of Columbia College can thus enter the third year of any of the above schools.

### Excursions

During the session, the students may visit the different mines, machine shops, electrical and metallurgical establishments, chemical works, and points of geological interest of the city and its environs, and excursions for this purpose are frequently organized by the different departments.

### Summer Courses

SUMMER COURSE IN SURVEYING. (See page 84.)

SUMMER COURSE IN GEODESY. (See page 71.)

SUMMER COURSE IN MINING. (See page 144.)

SUMMER COURSE IN METALLURGY. (See page 138.)

SUMMER COURSE IN GEOLOGY. (See page 107.)

### Equipment and Collections

Detailed information as to the laboratories, museums, collections, libraries, and other facilities for study and research will be found in the Departmental Statements as follows:

Chemistry, page 78.

Civil and Sanitary Engineering, page 83.

Electrical Engineering, page 100.

Geology, page 107.

Mechanical Engineering, page 128.

Metallurgy, page 138.

Mineralogy, page 140.

Mining, page 143.

Physics, page 165.

### Chemical and Assay Apparatus

1. Students may purchase apparatus of any of the dealers in the city.
2. To avoid inconvenience and expense to the students, and to secure a proper selection, the University undertakes, at considerable trouble and expense, to lend apparatus on the following conditions:

(a) Each student engaged in chemical or assay laboratory work, who draws apparatus, must make with the Bursar deposits, as follows, which will be credited to him:

Students taking first-year laboratory work in qualitative analysis, \$20

Other chemical or assay laboratory work . . . . . 40

In case of excessive draughts of apparatus an additional deposit may be required.

(b) Each student shall be entitled, on presenting his receipt at the apparatus room, to draw the regular set of apparatus for qualitative analysis, for quantitative analysis, for organic analysis, or for assaying on account of his deposit, and from time to time to obtain ordinary articles that he may need, which will be charged to him. At the end of the year he will be credited with those articles which he returns in good order, and the value of those which he has injured or broken will be deducted from his deposit.

(c) The apparatus room will be open for issuing apparatus every day at convenient hours.

(d) No charge is made for ordinary chemicals.

#### OUTLINE OF PROFESSIONAL COURSES OF STUDY

(For details as to each course of study see the Departmental Statements, pages 61-184 of this volume.)

## COURSE IN MINING ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1	Chemistry 12 (2d term)	Chemistry 17 (1st term)	† Civil Eng. 12 (1st term)
Chemistry 7	Chemistry 24	Civil Engineering 5	* Geology 6
Civil Engineering 1	Civil Eng. 14a (1st term)	Civil Eng. 6 (2d term)	* Geology 7
Mathematics 3a	Geology 2	Elec. Eng. 5 (2d term)	* Geology 10
Mathematics 3b	Geology 4 (2d term)	Geology 3	† Mech. Engineering 12-13
Mathematics 5	Mathematics 6	Mech. Eng. 11 (2d term)	Mech. Eng. 19 (1st term)
Mech. Engineering 1	Mech. Engineering 1-2	Mechanics 1	† Mech. E. 20-21 (2d term)
Mineralogy 12	Mechanics 1 (2d term)	Metallurgy 1 (1st term)	Mechanics 20 (1st term)
Physics 1	Mechanics 21 (1st term)	Metallurgy 5	Metallurgy 2-4, (1st term)
	Mineralogy 4 (1st term)	Mining 3	Metallurgy 6a (1st term)
	Mineralogy 6 (2d term)	Mining 7a (2d term)	Mining 4
	Physics 3		Mining 5 (2d term)
			Mining 6 (1st term)
			Mining 7
			Mining 9 (2d term)
			Mining 10 (2d term)
			Thesis

\* Geological option.

† Mining option.

## COURSE IN METALLURGICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1	Chemistry 9	Chemistry 17 (1st term)	Chemistry 4
Chemistry 7	Elec. Engineering 7	Elec. Eng. 5 (2d term)	Chemistry 14 (1st term)
Civil Eng. 1 (2d term)	Geology 2	Geology 3	Elec. Engineering 3
Geology 1	Geology 4 (2d term)	Mech. Engineering 2	Mech. Engineering 12-13
Mathematics 3 <sup>a</sup>	Mathematics 6	Mech. Engineering 11	Mech. Engineering 19
Mathematics 3 <sup>b</sup>	Mech. Engineering 1-2	Mech. Engineering 16	Mech. E. 20-21 (2d term)
Mathematics 5	Mechanics 1 (2d term)	Mech. Engineering 22	Metallurgy 4 (1st term)
Mech. Engineering 1	Mechanics 21 (1st term)	Mech. Engineering 41	Metallurgy 5
Mineralogy 12	Mineralogy 6 (2d term)	Mechanics 1	Mining 4
Physics 1	Physics 3, theory (1st term)	Metallurgy 1 (1st term)	Mining 5 (2d term)
	Physics 3, practice	Metallurgy 3 (2d term)	Mining 9 (2d term)
		Metallurgy 5	Mining 10 (2d term)
		Metallurgy 6	Thesis
		Mining 3	
		Mining 7 <sup>a</sup> (2d term)	



# COURSES IN ANALYTICAL, ORGANIC, AND INDUSTRIAL CHEMISTRY

FIRST CLASS.	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 3 Chemistry 9 Chemistry 20 Chemistry 24 Elec. Engineering 7 Mathematics 6 Mineralogy 4	Chemistry 10 Chemistry 13 (1st term) Chemistry 17 (2d term) Chemistry 25 Chemistry 26 (2d term) Chemistry 27 (1st term) Chemistry 34 Mech. Eng. 11 (2d term) Mechanics 19 Metallurgy 1 (1st term) Metallurgy 5 * Mineralogy 8 (2d term)	Chemistry 4 † Chemistry 14 or 15 Chemistry 25 * † Chemistry 27 (1st term) ‡ Chemistry 28 (2d term) Chemistry 33 Chemistry 35 * Chemistry 36 Electrical Engineering 3 † Elec. Eng. 5 (2d term) Mech. Engineering 12-13 † Metallurgy 3 (2d term) Metallurgy 4 (1st term) Thesis

\* Organic option.

† Analytical option.

‡ Industrial option.

## COURSE IN CIVIL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Botany 8 (1st term) Chemistry 1 Chemistry 7 Civil Eng. 1 (2d term) Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mech. Engineering 103-104 Physics 1	Chemistry 24 Civil Engineering 2 Elec. Engineering 7 Geology 18 (2d term) Mathematics 6 Mech. Engineering 2 Mech. Engineering 106-107 Mechanics 1 (2d term) Mechanics 21 (1st term) Metallurgy 3 (2d term) Mineralogy 5 Physics 3, theory (1st term) Physics 3, practice	Astronomy 30-31 Civil Engineering 4 Civil Engineering 5 Civil Eng. 6 (2d term) Civil Eng. 7 (2d term) Civil Eng. 8 (1st term) Civil Engineering 14 Elec. Eng. 5 (2d term) Geology 18 Mech. Eng. 11 (2d term) Mechanics 1	Astronomy 33 (1st term) Civil Eng. 3 (1st term) Civil Engineering 9 Civil Engineering 10 Civil Eng. 11 (1st term) Civil Eng. 12 (1st term) Civil Eng. 12a (2d term) Civil Eng. 13 (2d term) Mech. Engineering 12-13 Mech. Eng. 19 (1st term) Mech. E. 20-21 (2d term) Mechanics 4 (2d term) Thesis

## COURSE IN ELECTRICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1	Chemistry 11 (1st term)	Civil Engineering 5	Elec. Eng. 2 (1st term)
Chemistry 7	Chemistry 24	Elec. Eng. 1 (1st term)	Electrical Engineering 3
Mathematics 3 <sup>a</sup>	Electrical Engineering 7	Elec. Eng. 4 (2d term)	Elec. Eng. 8 (2d term)
Mathematics 3 <sup>b</sup>	Mathematics 6	Electrical Engineering 6	Elec. Engineering 11-12
Mathematics 5	Mech. Engineering 2	Electrical Engineering 10	Elec. Eng. 22 (2d term)
Mech. Engineering 1-2	Mech. Engineering 106-107	Elec. Eng. 15 (2d term)	Elec. Eng. 23 (1st term)
Mech. Engineering 103-104	Mech. Eng. 10 (2d term)	Mech. Eng. 10 (1st term)	Elec. Eng. 25 (2d term)
Physics 1	Mech. Eng. 11 (2d term)	Mech. Engineering 12-13	Mech. Eng. 19 (1st term)
	Mechanics 1 (2d term)	Mech. Engineering 17	Mech. Eng. 20-21 (2d term)
	Mechanics 21 (1st term)	Mech. Engineering 18	Mechanics 4 (2d term)
	Physics 3, theory	Mechanics 1	Mechanics 8 (1st term)
	Physics 3, practice	Mechanics 6 (1st term)	Mechanics 9 (2d term)
		Mechanics 7 (2d term)	Metallurgy 3 (2d term)
			Thesis

## COURSE IN MECHANICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1	Chemistry 24	Elec. Eng. 1 (1st term)	*Civil Eng. 12 (1st term)
Chemistry 7	Electrical Engineering 7	Elec. Eng. 4 (2d term)	Elec. Eng. 2 (1st term)
Mathematics 3a	Mathematics 6	Elec. Eng. 27 (1st term)	Elec. Eng. 8 (2d term)
Mathematics 3b	Mech. Engineering 1-2	Mech. Eng. 9 (1st term)	Elec. Engineering 22
Mathematics 5	Mech. Engineering 6-7	Mech. Eng. 10 (1st term)	Elec. Eng. 23 (1st term)
Mech. Engineering 1	Mech. Eng. 10 (2d term)	Mech. Engineering 12-13	Mech. Eng. 19 (1st term)
Mech. Engineering 3-4	Mech. Eng. 11 (2d term)	Mech. Eng. 14, 15, 17	Mech. Eng. 20-21 (2d term)
Physics 1, theory	Mechanics 1 (2d term)	Mech. Engineering 16	Mech. Eng. 23 (1st term)
Physics 3, practice	Mechanics 21 (1st term)	Mech. Engineering 18	Mech. Engineering 24
	Physics 3, theory	Mech. Engineering 22	Mech. Engineering 22-28
	Physics 3, practice	Mech. Engineering 30	Mech. Engineering 29
		Mech. Engineering 41	†Mech. Engineering 31
		Mechanics 1	†Mech. Engineering 32
		Metallurgy 3 (2d term)	†Mech. Engineering 34
			†Mech. Engineering 42
			†Mech. Eng. 43 (1st term)
			†Mech. Engineering 44-48
			†Mech. Engineering 46
			Mechanics 4 (2d term)
			Thesis

\* Dynamic option.

† Locomotive option

‡ Marine option.

## REGISTER OF STUDENTS

### FOURTH YEAR CLASS

#### MINING ENGINEERS

APLINGTON, HENRY WEBSTER.....	(Mhtn) New York City
CABOT, GEORGE DODGE.....	Mt. Vernon, N. Y.
CAETANI, DON GELASIO, (equiv. A.B.) <i>Univ. of Rome</i> .....	(Mhtn) New York City
CLARK, FRANCIS MORTON, M.E., <i>Stevens Institute</i> .....	(Mhtn) New York City
GUNTHER, CHARLES GODFREY.....	(Bklyn) New York City
HARWOOD, PAUL HENRY.....	Upland, Cal.
HENDRICKSON, JAMES F., Jr.....	(Bklyn) New York City
HENDRICKSON, WILLIAM HAROLD.....	White Plains, N. Y.
HOLT, CHARLES.....	(Mhtn) New York City
IRVINE, FREDERICK BRICE, C.E., <i>Columbia</i> .....	(Mhtn) New York City
JUDD, EDWARD KNIGHT, A.B., <i>Williams</i> .....	(Mhtn) New York City
KIDDER, SIDNEY JESSE, B.S., <i>Rose Polytechnic Institute</i> .....	Terre Haute, Ind.
LANDERS, WILLIAM HERBERT.....	San Leandro, Cal.
PEMBROKE, EARL RICHARD.....	Salt Lake City, Utah
RODRIGUEZ, FRANCISCO.....	Mazapil, Mexico
SHAW, SILAS FREDERICK.....	Kansas City, Mo.
TRAUX, SEWALL.....	Walla Walla, Wash.
UNGRICH, MARTIN JACOB.....	(Mhtn) New York City
WILLIS, HARRY THOMAS, B.S., <i>Princeton</i> .....	Champaign, Ill.
WILMOT, HARRY CLIFFORD.....	(Mhtn) New York City

#### CIVIL ENGINEERS

BEYER, ALBIN HEBMANN, Jr.....	(Bklyn) New York City
BUDELL, ALFRED EDWARD.....	Westfield, N. J.
BUSSE, FRANK AUGUST.....	Cincinnati, O.
FORD, WALTER HOFFMANN.....	(Mhtn) New York City
GOODMAN, LOUIS, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
HOLDEN, CHARLES ALEXANDER.....	(Br) New York City
LEVITT, BORIS ABRAHAM.....	(Br) New York City
LODER, ELWOOD HILL.....	Port Chester, N. Y.
MCDOWELL, WALTER ST. LEGER.....	Middletown, Conn.
MAISENHOLDER, EDWARD FREDERICK.....	(Mhtn) New York City
NICHOLSON, JOHN MICHAEL, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
SAYERS, EDWARD LAWRENCE, A.B., <i>St. Francis Xavier</i> .....	(Mhtn) New York City
WOLFF, ARTHUR MOSES.....	(Mhtn) New York City
WORMSER, MORITZ, A.B., <i>Columbia</i> .....	(Mhtn) New York City
YATES, WILLIAM HENRY.....	(Mhtn) New York City

#### ELECTRICAL ENGINEERS

BAUMGARTEN, CHARLES.....	(Mhtn) New York City
BRADLEY, ALONZO BRACKETT.....	(Mhtn) New York City
COGGESHALL, ALLAN.....	(Mhtn) New York City
EVERETT, SAMUEL HARRISON, Jr.....	(Bklyn) New York City
GREVATT, FRANK FROMMEL.....	West Hoboken, N. J.
GRIFFITH, PERCY LE ROY.....	(Mhtn) New York City

HOGUET, RAMSAY CHARLES.....	(Mhtn)	New York City
LILLARD, OGDEN WHITTIER.....	(Mhtn)	New York City
PALMER, MONTAGUE.....	(Mhtn)	New York City
RICHARDS, HOWARD, Jr., Ph.B., <i>Sheffield Scientific School</i> .....	(Mhtn)	New York City
SLOANE, THOMAS O'CONOR, Jr.....		South Orange, N. J.
SMITH, RAYMOND WESTHORPE.....	(Mhtn)	New York City
STOVER, RODERICK.....		Albuquerque, New Mexico

## MECHANICAL ENGINEERS

AGER, JOHN WINFRID.....	(Bklyn)	New York City
DITTENHOEFER, LESTER FRANKLIN.....	(Mhtn)	New York City
FABER, JOHN PELHAM.....	(Mhtn)	New York City
FRANK, EUGENE.....	(Mhtn)	New York City
HENES, LOUIS GEORGE.....	(Mhtn)	New York City
JACOBY, HENRY EDWARD, B.S., <i>N. Y. City College</i> .....	(Mhtn)	New York City
KAYSER, WILLIAM DETLER.....	(Mhtn)	New York City
KELLOGG, JOHN BLAKE, Ph.B., <i>Oberlin College</i> .....	(Mhtn)	New York City
MATTY, LEO JOSEPH.....	(Mhtn)	New York City
MOËN, LECLANCHÉ.....	(Mhtn)	New York City
PIGOTT, STEPHEN JOSEPH.....		Cornwall, N. Y.
POND, CHARLES MILES.....		New Rochelle, N. Y.
SCHMIDT, HENRY FREDERICK.....	(Mhtn)	New York City
SMALLWOOD, JULIAN CHASE.....	(Mhtn)	New York City
SPIRO, WALTER JESSE, A.B., <i>Columbia</i> .....	(Mhtn)	New York City
STONE, MASON ALBERT, Jr., A.B., <i>Yale</i> .....	(Mhtn)	New York City
VAN CISE, WILLIAM MARSH, A.B., <i>Columbia</i> .....		Summit, N. J.
WALSH, FRANCIS PATRICK.....	(Mhtn)	New York City

## METALLURGISTS

LANGMUIR, IRVING.....	(Mhtn)	New York City
WICKES, L. WEBSTER.....		Denver, Col.

## CHEMISTS

ABRAHAM, HERBERT.....	(Mhtn)	New York City
CRUSER, FREDERICK VAN DYKE.....	(Bklyn)	New York City
DEMPWOLF, CHARLES HENRY, Jr.....		York, Pa.
FRANK, HENRY.....	(Bklyn)	New York City
GULBRANDSEN, SVERRE.....	(Bklyn)	New York City
HAINES, HAROLD WOODBURY.....	(Mhtn)	New York City
LINDEMAN, MAURICE.....	(Mhtn)	New York City
McLAUGHLIN, CYRIL BERCHMAN, A.B., <i>St. Francis Xavier</i> .....	(Mhtn)	New York City
MERSEREAU, GAIL.....		Cayuga, N. Y.
THOMPSON, JOHN FAIRFIELD.....	(Bklyn)	New York City
WILLIAMSON, GEORGE NORMAN, Jr.....		Englewood, N. J.

## FOURTH YEAR CLASS

Mining Engineers.....	20
Civil ".....	15
Electrical ".....	13
Mechanical ".....	18
Metallurgists.....	2
Chemists.....	11
	<hr/>
	79

## THIRD YEAR CLASS

## MINING ENGINEERS

ANDREWS, JAMES HENDERSON, B.S., <i>State Agricultural College of Colorado</i>	Fort Collins, Colo.
ARGALL, GEORGE O.....	Denver, Colo.

BALDWIN, WILLIAM SAGE.....	Nyack, N. Y.
BAMBERGER, SIDNEY M.....	Salt Lake City, Utah
BAUCHELLE, JOHN FLETCHER.....	(Mhtn) New York City
BOWLES, HENRY THORNTON, A.B., <i>Yale</i> .....	(Mhtn) New York City
BROWN, HARVEY SCOTT, A.B., <i>Columbia</i> .....	Cleveland, O.
BURBRIDGE, THEODORE ALBERT.....	Charleston, S. C.
CARRINGTON, WARING.....	Newark, N. J.
CATRON, JOHN WALZ.....	(Mhtn) New York City
COLLINS, FRANCIS WINFIELD.....	Denver, Colo.
CORBET, WILLIAM WAKEFIELD, Ph.B., <i>Yale</i> .....	Brookfield, Pa.
FIES, MILTON HENRY.....	Birmingham, Ala.
FOLSOM, DAVID MORRILL, A.B., <i>Stanford University</i> ....	White Sulphur Springs, Mont.
FOOTE, FRANCIS SEELEY, Jr.....	Montclair, N. J.
GAGE, EDWARD BALLARD, M.E., <i>Cornell</i> .....	Chicago, Ill.
HORWITZ, HARRY BIJUR.....	Cleveland, O.
JACOBSEN, HARRY BARLING.....	(Mhtn) New York City
KNOBLAUCH, GEORGE WIEBE, A.B., <i>Harvard</i> .....	(Mhtn) New York City
LAW, CHARLES TAYLOR.....	(Mhtn) New York City
LOVEJOY, FREDERICK WARREN, Jr., A.B., A.M., <i>Harvard</i> .....	(Bklyn) New York City
LUTHER, EDWIN CORNELIUS, C.E., <i>Princeton</i> .....	Pottsville, Pa.
MACDOUGALL, CHARLES WILLIS.....	Elizabeth, N. J.
MAYER, LUCIUS WOLF.....	(Mhtn) New York City
MILLER, WILLIAM LEGGETT.....	Wading River, N. Y.
MORRELL, FRANCIS ADAM, A.B., <i>Creighton University</i> .....	Omaha, Neb.
MOSEH, MELVIN A.....	Salt Lake City, Utah.
NORSWORTHY, HOWARD RADCLIFFE.....	(Mhtn) New York City
PELTON, ROGER TROWBRIDGE.....	Poughkeepsie, N. Y.
PICKERING, JOHN CLARK.....	(Mhtn) New York City
ROTHSCHILD, CLARENCE GEORGE.....	(Mhtn) New York City
SCHMIDT, FREDERICK SOMMER, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
SELLERS, GEORGE MAHLON.....	Philadelphia, Pa.
SERGEANT, HENRY DE FOREST.....	Summit, N. J.
SMILLIE, SHELDON.....	(Mhtn) New York City
SMITH, ALWYN CHARLES, B.S., M.S., <i>State University of Colorado</i> .....	Sunshine, Colo.
SMITH, WEBSTER TEMPLE.....	Chicago, Ill.
STARAL, FRANK JOSEPH.....	Cleveland, O.
STILLWELL, HOWARD APPLETON.....	(Bklyn) New York City
STOW, SHERMAN HOLLISTER.....	Santa Barbara, Cal.
SWARTZ, CHARLES CHRISTIAN, A.B., <i>Yale</i> .....	South Norwalk, Conn.
TRACY, WILLIAM EVARTS, A.B., <i>Yale</i> .....	Plainfield, N. J.
WICHMAN, FRANK MAXWELL.....	Montclair, N. J.
WILL, PHILIP, M.E., <i>Cornell</i> .....	Rochester, N. Y.
WILLIAMS, ROBERT YOUNG, A.B., <i>Princeton</i> .....	Newark, N. J.

## CIVIL ENGINEERS

BENJAMIN, HERBERT ISIDOR.....	(Mhtn) New York City
CARLETON, ROBERT ANDREW WOOD.....	Edgewater, N. J.
CARTER, ALFRED ELLSWORTH.....	Blair, Neb.
CHURCH, ELIHU CUNYNGHAM.....	(Mhtn) New York City
COBLOS, JULES AUGUSTE.....	(Mhtn) New York City
COOPER, EVERITT MORTON.....	(Mhtn) New York City
EVALENKO, WILLIAM ALEXANDER.....	(Mhtn) New York City
GOLDBERG, HERMAN, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
HANAN, HERBERT SPENCER.....	(Mhtn) New York City
HAWKESWORTH, JOHN.....	(Mhtn) New York City
HELLER, CLARENCE.....	(Mhtn) New York City
KEITHLEY, ROLAND HILL.....	Shackelford, Mo.
LYON, GEORGE JOHN, B.S., <i>University of Nebraska</i> .....	(Mhtn) New York City

MILES, GEORGE FREDERIC.....	(Mhtn)	New York City
MORALES, LUIS PEDROSO, A.B., M.S., <i>University of Havana</i> ....	(Mhtn)	New York City
MURPHY, JAMES LEO.....	(Mhtn)	New York City
PERLMAN, WILLIAM.....	(Mhtn)	New York City
RIONDA, LEANDRO JOSÉ, Mech. E., <i>Columbia</i> .....	(Mhtn)	New York City
ROGERS, AUGUSTUS.....	(Mhtn)	New York City
SCHOCK, DAN ROLLAND.....	(Mhtn)	New York City
SEWALL, FRANK HOUGHTON, A.B., <i>Columbia</i> .....	(Mhtn)	New York City
SMITH, ELBERT OSBORNE, JR.....	(Mhtn)	New York City
STEIN, CHARLES RICHARD.....	(Mhtn)	New York City
STEINDLER, HENRY, A.B., <i>N. Y. City College</i> .....	(Mhtn)	New York City
TANENBAUM, SAMUEL ALEXANDER.....	(Mhtn)	New York City
TYLER, WILLIAM ROGERS.....	(Mhtn)	New York City

## ELECTRICAL ENGINEERS

ABENDROTH, WILLIAM PHILIP.....	(Mhtn)	New York City
ACKER, ALBERT J.....	(Mhtn)	New York City
BACON, DANIEL READ.....		Goshen, N. Y.
BARNERT, MEYER.....		Paterson, N. Y.
CHANDLER, HENRY KING.....	(Mhtn)	New York City
CLARK, FREDERIC BAYLIS.....	(Mhtn)	New York City
DAY, SALISBURY MARCUS.....	(Mhtn)	New York City
DE FOREST, EDWARD LAYTON.....	(Mhtn)	New York City
DEMERITT, HAROLD SAVERY.....		New Canaan, Conn.
DUDEN, WILLIAM.....	(Br)	New York City
EVANS, WILLIAM AUGUSTUS DARLING.....	(Mhtn)	New York City
HAIGHT, LOUIS HENRY.....		Amityville, N. Y.
HIGBIE, HENRY HAROLD.....	(Mhtn)	New York City
HOLMES, DUNCAN ARGYLE.....	(Mhtn)	New York City
JACOBSON, SAMUEL OSCAR, B.S., <i>N. Y. City College</i> .....	(Mhtn)	New York City
JARCHO, ISAIAH.....	(Mhtn)	New York City
LEWINE, RAYMOND SAKOLSKI.....	(Mhtn)	New York City
LEWINSON, LEONARD JULIAN.....	(Mhtn)	New York City
MENGES, CHARLES PETER.....	(Mhtn)	New York City
REID, EUGENE JOSEPH.....	(Br)	New York City
SANGER, CHARLES.....	(Mhtn)	New York City
SCHAUS, CARL JOSEPH.....	(R)	New York City
SCHNEIDER, CARL ALBERT.....		Tezintlan, Mex.
SERINGHAUS, FREDERICK WILLIAM JF.....	(Mhtn)	New York City
SIMONS, ARTHUR GARRETSON.....	(R)	New York City
STOUTENBURGH, CHARLES HALL.....	(Mhtn)	New York City
WALTER, JOHN CHARLES.....		Baltimore, Md.
WHARTON, PERCIVAL CHARLES.....	(Mhtn)	New York City
WITTIG, GUSTAV FREDERICK, B.S., <i>Rutgers</i> .....		New Brunswick, N. J.

## MECHANICAL ENGINEERS

ALEXANDER, LUDWELL BROOKE.....	(Mhtn)	New York City
ARNOLD, STANFIELD NICHOLS.....	(Mhtn)	New York City
ASHLEY, RALPH EARL.....		Denver, Colo.
BIGLOW, LEM CAVALLI.....	(Mhtn)	New York City
BORSODY, ALEXANDER.....	(Mhtn)	New York City
CAMPBELL, RALPH.....	(Mhtn)	New York City
CARBO, LUIS ALBERTO.....	(Mhtn)	New York City
COOK, THOMAS FOWKE.....	(Mhtn)	New York City
CURRY, MALCOLM.....	(R)	New York City
DENISON, GRISWOLD, II.....	(Bklyn)	New York City
FISHER, HARRY ANNIS.....	(Mhtn)	New York City



GILLIES, WILLIAM F.	Montclair, N. J.
GLASBY, HERBERT STITES	Newark, N. J.
GOODRICH, JOHN SERRE	(Mhtn) New York City
GRANT, HARRY ALLEN	Tarrytown, N. Y.
HOWELL, JOHN JACOB	(Mhtn) New York City
HULL, ARTHUR BURR	(Mhtn) New York City
KEBLER, LEONARD	(Br) New York City
MARTIN, FRANKLIN	West Orange, N. J.
OSBORNE, HAROLD SKENE	(Mhtn) New York City
PARR, HARRY LILIENTHAL, A.B., <i>Columbia</i>	Yonkers, N. Y.
RIEDEL, CARL OSCAR	(Bklyn) New York City
SANGUINETTI, PHILIP COHEN	(Mhtn) New York City
SCHREIBER, CARL THEODORE	(Bklyn) New York City
STANGLAND, ROBERT SEDGWICK	Morton, N. Y.
SWART, CLIFFORD TOWNSEND	Mt. Vernon, N. Y.
UPDIKE, DAVID MONTGOMERY	(Mhtn) New York City
WEINRICH, MORRIS FRANK	Yonkers, N. Y.
WILLHOPFT, FRIEDRICH OTTO, <i>Testimonium Maturitatis, Kgl. Gymnasium, Leipzig</i>	(Mhtn) New York City
WOOD, WILLIAM	Islip, N. Y.
WYLD, ROBERT HASBROUCK	(Mhtn) New York City

## METALLURGISTS

NEUGASS, SOLOMON	(Mhtn) New York City
SAMPLE, CLARENCE WALKER CARLETON	(Mhtn) New York City

## CHEMISTS

BERG, WILLIAM NATHAN	(Mhtn) New York City
COX, HAROLD NEWTON	(Bklyn) New York City
FALK, MILTON J.	(Mhtn) New York City
OLSHAUSEN, BRUNO ADOLPHUS, A.B., <i>Leland Stanford, Jr., University</i> , Los Angeles, Cal.	
PICKARD, GLENN HUNTINGTON	Cleveland, O.

## THIRD YEAR CLASS

Mining Engineers	45
Civil "	26
Electrical "	29
Mechanical "	31
Metallurgists	2
Chemists	5

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## SECOND YEAR CLASS

## MINING ENGINEERS

AGNEW, JAMES CARSON	Duluth, Minn.
AICHER, FRANK ALBERT	Denver, Colo.
ANDERSON, GLENN	White Sulphur Springs, Mont.
BAUERNEBL, AUGUST JOSEPH, Jr.	Newark, N. J.
BRAUNSTEIN, RALPH	London, England
BUELL, THOMAS RECTOR	Herndon, Va.
CAMP, ALBERT ROY	(Mhtn) New York City
CLIFFORD, OLIVER MORTON, A.B., <i>Yale</i>	St. Louis, Mo.
COOK, FREDERICK STEPHEN	St. Paul, Minn.
DANTZIGER, CLARENCE T.	(Mhtn) New York City
DECKER, CARL HENRY, A.B., <i>Wartburg College</i>	Albuquerque, N. Mex.
DEMAREST, WILLIAM GUSTAVUS	(Mhtn) New York City
DE SALLIER DU PIN, RENÉ ALEXANDER	Watertown, N. Y.

DESPARD, CHARLES SMITH, Jr., A.B., <i>St. John's College</i> .....	Parksburg, W. Va.
DUNN, DREW HAVEN .....	Duluth, Minn.
DYER, HAROLD PENNOCK .....	St. Paul, Minn.
ERNEST, RICHARD HERMANN .....	Denver, Colo.
FISHER, THOMAS EUSTACE .....	Mt. Vernon, N. Y.
FRAMBACH, CHARLES LEWIS .....	Cheboygan, Mich.
FRANC, CARL BENJAMIN, JR. ....	(Bklyn) New York City
FRANK, ALBERT .....	(Mhtn) New York City
FRASER, ALEXANDER JOHN .....	(Mhtn) New York City
GEIGER, ARTHUR WILLIAM .....	Boston, Mass.
GODWIN, VICTOR .....	(Mhtn) New York City
GOLDMAN, MARCUS ISAAC, A.B., S.B., <i>Harvard</i> .....	(Mhtn) New York City
GREEN, GEORGE GORDON .....	(Mhtn) New York City
HAHNEL, AUGUST FRANK .....	(Mhtn) New York City
HATCH, HAMLIN BROOKS .....	(Mhtn) New York City
HIRSCHBERG, CARL NELSON .....	Buffalo, N. Y.
HOUSE, HENRY ARTHUR .....	Duluth, Minn.
JACOBS, SYDNEY .....	(Mhtn) New York City
JOHNSON, ROBERT MCLEOD .....	Newark, N. J.
JONES, RICHARD M., A.B., <i>Oberlin</i> .....	Allegheny, Pa.
JULIHN, CARL EDWARD A. V. ....	Washington, D. C.
KLEIN, EDWARD SAMUEL .....	Cleveland, O.
KRAUT, MAX .....	(Mhtn) New York City
MCURDY, ELLIOTT STEELE .....	Wilmington, Del.
MILLER, BERT FOX .....	Laramie, Wyo.
NICOLL, GILBERT LEE .....	(Mhtn) New York City
PAYSON, HAROLD .....	(Mhtn) New York City
PITNER, PAUL JEROME .....	Evanston, Ill.
PORTER, JESSE COOMBS .....	(Bklyn) New York City
POWELL, FREDERICK JAMES .....	(Mhtn) New York City
RING, AMBROSE ELY .....	(Mhtn) New York City
RODEN, BENJAMIN FRANKLIN, Jr. ....	Birmingham, Ala.
ROGERS, ROBERT BENSON .....	(Mhtn) New York City
ROHLFS, OTTO DIEDRICH .....	Seattle, Wash.
ROLLE, SIDNEY .....	(Mhtn) New York City
ROSSBERG, WILLIAM NICHOLAS .....	Helena, Mont.
SCHILLING, WILLIAM BYRON .....	Laramie, Wyo.
SCOTT, ARTHUR CLEVELAND .....	Westchester, N. Y.
SEDGWICK, ALLAN ERNEST .....	York, Neb.
SHERRON, GEORGE AUSTIN .....	Rowayton, Conn.
SILVERMAN, HERBERT LUPLIN .....	Butte, Mont.
WALZ, ANDREW .....	(Mhtn) New York City
WARNER, ARTHUR HOBART .....	St. Paul, Minn.
WATSON, FRANK WHELLEY .....	Portland, Ore.
WHITTIER, WILMOT E., A.B., <i>Leland Stanford, Jr., University</i> ..	(Mhtn) New York City
WILCOX, SIDNEY HELMUTH .....	(Mhtn) New York City
WILLIS, RUSSELL HENRY .....	(Mhtn) New York City

## CIVIL ENGINEERS

ALLEN, CLEVELAND .....	(Mhtn) New York City
ATKINS, ALFRED WALTON .....	Roselle, N. J.
BARSELL, FREDERICK BAYARD, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
BEHRMAN, SAMUEL .....	(Mhtn) New York City
BENEDICT, FARRAND NORTHROP .....	Parsippany, N. J.
BENHAM, WEBSTER LANCE .....	(Mhtn) New York City
BODE, WILLIAM ADOLF .....	(Mhtn) New York City
BRADY, THOMAS JOSEPH, Jr. ....	(Mhtn) New York City
CHURCHILL, LEWIS THOMAS .....	Dunellen, N. J.

CORNELL, MILTON LONGACRE.....	(Mhtn) New York City
CROWELL, FRANCIS STIRLING.....	(Q) New York City
DE LARA, FRANCIS BELASCO.....	(Mhtn) New York City
DERLETH, WALTER TAUBERT, B.S., <i>N. Y. City College</i> .....	(Br) New York City
GAUSMANN, ROY WARNER.....	Leonia, N. J.
HEYMAN, WILLIAM.....	Jersey City, N. J.
HUMPHREY, FREDERIC LEAROYD.....	(Bklyn) New York City
JOCHUM, HENRY L., A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
LAZINSK, ABRAHAM, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
LUCAS, ROBERT JAMES.....	(Br) New York City
MALCOLMSON, ALFRED SIDNEY.....	Orange, N. J.
MATTHEWS, CHARLES EARL.....	Newark, N. J.
OWEN, KENNETH DUNHAM.....	Montclair, N. J.
SCHWARZ, SAMUEL ALEXANDER, A.B., <i>N. Y. City College</i> .....	(Mhtn) New York City
SCHWEGLER, GEORGE.....	(Mhtn) New York City
SOLOW, ALEXANDER S., B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
STEEGMULLER, CHARLES ALBERT AUGUSTINE.....	Norwalk, Conn.
TETLEY, THOMAS ROBINSON, Jr.....	(Mhtn) New York City
TRUENBACH, CONRAD, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
VOM SAAL, FRED MAXIMILIAN VON H.....	(Mhtn) New York City
WHITNEY, WILLIAM BRAINARD, Jr.....	(Mhtn) New York City
WILSON, ROBERT CLIFFORD.....	Newark, N. J.

## ELECTRICAL ENGINEERS

BAUM, HARRY, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
BLEYER, ARTHUR.....	(Mhtn) New York City
BOOSS, FREDERICK E.....	(Mhtn) New York City
BRADLEY, WALTER EDWARD.....	(Mhtn) New York City
CARLBACH, WALTER MAX.....	(Mhtn) New York City
COSTELLO, THOMAS JOSEPH.....	(Mhtn) New York City
DALY, WILFRID AUGUSTIN.....	Yonkers, N. Y.
EAKIN, ALEXANDER.....	Englewood, N. J.
FINKEL, ISIDORE HENRY.....	(Mhtn) New York City
GILLIES, JOHN WALLACE.....	Flushing, N. Y.
GOLDBERG, HARRY, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
GUTMAN, EDWIN JULIUS.....	Baltimore, Md.
HAAS, HENRY CHARLES.....	(Mhtn) New York City
HAYES, EDWARD F.....	(Mhtn) New York City
HERTZ, HENRY LAWRENCE, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
HOCHSPRUNG, GEORGER WERNER.....	(Bklyn) New York City
HOOPER, GEORGE HEBERTON, Jr.....	(Mhtn) New York City
JOHNSON, ROBERTS POINSETT.....	(Mhtn) New York City
JOSEPHI, ROBERT.....	(Mhtn) New York City
KEATING, HARVEY, B.S., <i>Ohio State University</i> .....	Columbus, O.
KOHLER, LOUIS FRANK.....	(Bklyn) New York City
LEWIS, HAROLD GOULD.....	Lincoln, Neb.
MAKELY, METRAH, Jr., A.B., <i>University of North Carolina</i> .....	Edenton, N. C.
MILLER, WILLIAM NORTON.....	Kenton, O.
MÜLLER, AUGUST MICHAEL.....	(Mhtn) New York City
NEWTON, EARLE ROTH.....	Haverstraw, N. Y.
PIERCE, WALTER LIDGERWOOD SMILLIE.....	Scarborough-on-Hudson
POLLAK, LEO L., B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
ROCHESTER, THOMAS WALTER.....	Jersey City, N. J.
SNEDECKER, CLARENCE FELTER.....	Haverstraw, N. Y.
STEVENS, OSCAR EGERTON.....	(Mhtn) New York City
TRIPPE, WILLIAM HERON.....	East Orange, N. J.
VAN WAGENEN, EDWARD.....	(Mhtn) New York City
WARD, FREDERICK ELLIS.....	(Mhtn) New York City

WHEELER, BURRITT NASH.....	(Mhtn) New York City
WINETRAUB, ADOLPH ISRAEL M. (equiv. A.B.), <i>Lycée, Braila, Roumania</i>	(Mhtn) New York City
WOLFF, WILLY AUGUST.....	(Mhtn) New York City

## MECHANICAL ENGINEERS

ASHLEY, EUGENE.....	(Mhtn) New York City
BENSON, CLYDE.....	Nyack, N. Y.
BLICKENSCHERFER, CLARK.....	Denver, Colo.
BRADLEY, GEORGE ROWLAND.....	(Mhtn) New York City
BULLEY, GEORGE WILSHEAR.....	(Bklyn) New York City
BURCH, THOMAS HAMILTON, JR.....	(Mhtn) New York City
CONNELL, WILLIAM HENRY, JR.....	(Mhtn) New York City
COOKSON, JAMES SLOCUM.....	Suffern, N. Y.
DE LA TORRE, MANUEL, A.B., <i>Havana University</i> .....	(Mhtn) New York City
DUNCOMBE, FREDERIC HOWE.....	Mt. Vernon, N. Y.
HOLLMANN, FREDERICK WILLIAM.....	(Mhtn) New York City
HULBERT, WILLIAM ROWELL.....	(Mhtn) New York City
JONES, RUSSELL COMPTON.....	(Mhtn) New York City
KING, CHARLES ARTHUR.....	Plainfield, N. J.
MCINTYRE, MALCOLM.....	(Mhtn) New York City
MEAD, RAYMOND HINMAN.....	Newark, N. J.
MEAD, THEODORE, JR.....	Newark, N. J.
MERRITT, LUCIUS ROBINSON.....	(Mhtn) New York City
MILLWARD, JAMES BROOMFIELD.....	(Mhtn) New York City
MORRIS, HOWARD IRVING.....	(Bklyn) New York City
NUSIM, MELACH (equiv. A.B.), <i>Lycée reale, Braila, Roumania</i> ..	(Mhtn) New York City
PRAGER, WILLIAM LOUIS, B.S., <i>N. Y. City College</i> .....	(Mhtn) New York City
STRUSS, WILLIAM EDWARD.....	(Mhtn) New York City
TAYLOR, NELSON SALATHIEL MILLS.....	Buffalo, N. Y.
THORP, THOMAS JOSEPH.....	(Mhtn) New York City
WERNER, LESTER ARTHUR.....	(Mhtn) New York City
WESTBROOK, FRANCIS ABEKEN.....	(Bklyn) New York City
WORK, JOHN CLINTON.....	Oyster Bay, N. Y.

## METALLURGISTS

DUDEN, FREDERICK HENRY, A.B., <i>Columbia</i> .....	(Br) New York City
WILLIAMS, REMSEN TAYLOR.....	(Q) New York City

## CHEMISTS

BOYNTON, WILLIAM H.....	Nyack, N. Y.
DOTY, HENRY SAFFORD.....	Yonkers, N. Y.
HAHN, ALBERT WILLIAM.....	(Mhtn) New York City
METTLER, ARTHUR JULIUS.....	(Bklyn) New York City
NIEDER, PHILIP GEORGE.....	Fanwood, N. J.
POPPER, EDWIN.....	(Mhtn) New York City
RUPP, FREDERICK LOUIS.....	(Mhtn) New York City

## SECOND YEAR CLASS

Mining Engineers.....	60
Civil ".....	31
Electrical ".....	37
Mechanical ".....	28
Metallurgists.....	2
Chemists.....	7
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## FIRST YEAR CLASS

## MINING ENGINEERS

ASHMEAD, DENVER CAMPBELL.....	Yonkers, N. Y.
AUERBACH, HERBERT S.....	Salt Lake City, Utah

BAXTER, HAROLD.....	(Mhtn) New York City
BURDETTE, RICHARD STUART.....	Cliffside, N. J.
CANNON, HERBERT GROVE.....	Cleveland, O.
CASSEBEER, EDWIN W.....	(Mhtn) New York City
CHURCH, JOHN ADAMS, JR.....	(Mhtn) New York City
DOANE, CHILION FRANCIS.....	(Mhtn) New York City
DOON, CHARLES W.....	(Mhtn) New York City
DRUDING, FRANK DANIEL.....	(Mhtn) New York City
EDDINGFIELD, FRANK TRAVERS.....	Washington, D. C.
EDEBOHLS, ALPHONSE JULIUS, A.B., <i>St. John's College</i> .....	(Mhtn) New York City
ELDREDGE, GUY SUNDERLIN.....	Salt Lake City, Utah
ENOS, HERBERT CORY.....	Denver, Colo.
EVANS, ALFRED WINTER.....	Natal, So. Africa
FEETER, WILLIAM H.....	(Mhtn) New York City
FLANDERS, JOHN AIKEN.....	Glencoe, Ill.
FULTON, CHESTER ALAN.....	Yonkers, N. Y.
GIBERT, FREDERIC EDWARD, JR.....	Biarritz, France
HAIGHT, CLARENCE M.....	(Mhtn) New York City
HILL, HAROLD WILLIAM.....	Buffalo, N. Y.
HILLHOUSE, JOHN TEN EYCK.....	Yonkers, N. Y.
HOLDEN, LAWRENCE CHAFFEE.....	(Mhtn) New York City
HOYT, JOHN ROBERTSON.....	Great Neck, L. I.
HUGHES, GROVER.....	(Mhtn) New York City
JOHNSON, ARTHUR MICHAEL.....	Canal Dover, O.
JOHNSON, FRANCE DAVIS.....	Nome, Alaska
KANSKI, ROMAN PARKER.....	(Mhtn) New York City
KELLOGG, LEE OLDS, A.B., <i>University of Minnesota</i> .....	St. Paul, Minn.
KING, HAROLD FREDERIC.....	East Orange, N. J.
KNIFFIN, LLOYD MALCOLM.....	Paterson, N. J.
KURZENKNABE, FRANCIS EARL.....	Harrisburg, Pa.
LANDERS, MARSDEN HENRY.....	San Francisco, Cal.
LAWRIE, HAROLD NEWBOLD.....	Atlantic Highlands, N. J.
LINDSLEY, GEORGE LEONARD.....	Orange, N. J.
LONGWELL, ROBERT AGNEW.....	Philadelphia, Pa.
MAC KALLOR, DE WITT CLINTON.....	(Mhtn) New York City
MALLALIEU, WILLARD CONVERSE.....	(Bklyn) New York City
MILLS, RONALD VAN AUKEN.....	Washington, D. C.
MILTENBERGER, GEORGE, JR.....	St. Louis, Mo.
MITCHELL, WILLIAM SPINGLER.....	(Mhtn) New York City
MORTON, CHARLES.....	Mt. Vernon, N. Y.
MUIR, DOWNIE DAVIDSON, JR.....	(Mhtn) New York City
NEWBORG, JEROME.....	(Mhtn) New York City
NORRIS, EDWARD MERRITT.....	(Mhtn) New York City
PATTERSON, SEELY BENEDICT, JR.....	Allentown, Pa.
PRENTIS, EDWARD ASTLEY, JR.....	(Mhtn) New York City
SAGE, WARREN MORRILL.....	(Mhtn) New York City
SCHULTZ, ROBERT SPENCER, JR.....	Philadelphia, Pa.
SEIFERT, HANS FREDERICK.....	Jersey City, N. J.
SKOFIELD, PERLEY FISKE.....	(Mhtn) New York City
SUYDAM, ALBERT G.....	Ridgefield, N. J.
TAFT, THOMAS KNAPP.....	Cornwall-on-Hudson, N. Y.
TAYLOR, HENRY BOWMAN.....	Kansas City, Mo.
TENNEY, ALBERT SEWARD.....	Tientsin, China
TENNEY, JAMES BRAND.....	Tientsin, China
THOMAS, CHARLES SEWELL, JR.....	Denver, Colo.
VAN SICLEN, MATTHEW, A.B., <i>Amherst</i> .....	Cornwall, N. Y.
VON PUSTAU, CARL GERHARD, JR.....	(Mhtn) New York City
WHITWELL, CUTLER BONESTELL.....	(Mhtn) New York City

WILLARD, PAUL DAY.....	Riverside, Cal.
WILLETS, ROBERT HENRY.....	Roslyn, L. I.
WILLIAMS, REED.....	(Mhtn) New York City

## CIVIL ENGINEERS

ARCHIBALD, EDWARD FRANCIS.....	(Mhtn) New York City
BAYLIS, ROSWELL SPENCER.....	Huntington, L. I.
CANTON, ALFRED G.....	Yucatan, Mexico
CLARKSON, JULIAN GIRARD.....	(Mhtn) New York City
DEUTSCH, MAURICE.....	(Mhtn) New York City
DOUGHTY, JOHN BODINE.....	Jericho, N. Y.
ELLIOTT, GUY RUPERT BETTS.....	Thorne's Cove, N. S.
FINCH, JAMES KIPP.....	(Mhtn) New York City
GOODWIN, H. HARRISON.....	(Mhtn) New York City
GREENE, RUSSELL DE COSTA.....	(Mhtn) New York City
HOSFORD, LEONARD POST.....	(Bklyn) New York City
KEYS, EDWIN CORNELIUS, Jr.....	(Mhtn) New York City
KILIAN, THEODORE PHILIP.....	(Mhtn) New York City
KLINE, HENRY J.....	(Mhtn) New York City
KNIGHT, JOHN LINDMARK.....	(Mhtn) New York City
LODER, IRVING HOWARD.....	Port Chester, N. Y.
MCDONELL, ALEXANDER JOSEPH.....	(Mhtn) New York City
MARTIN, GEORGE FRED.....	(Mhtn) New York City
MERRITT, JAMES H.....	Tarrytown, N. Y.
MURPHY, JAMES FRANCIS.....	(Mhtn) New York City
NADAL, STEPHEN RUFUS.....	(Mhtn) New York City
OTT, CHARLES A.....	(Mhtn) New York City
POLISHOOK, SAMUEL NOAH.....	(Mhtn) New York City
RAYGADA, PEDRO E.....	Paita, Peru, S. A.
SCHWANZPLUGEL, CHARLES ALBERT.....	(Q) New York City
SIGMUND, BENJAMIN JOSEPH.....	(Mhtn) New York City
TOLL, ROGER WOLCOTT.....	(Mhtn) New York City
VEVE, SANTIAGO.....	Fajardo, Puerto Rico

## ELECTRICAL ENGINEERS

BOLTON, ARTHUR T.....	(Br) New York City
BOWIE, WILLIAM B.....	(Bklyn) New York City
CAMPELL, CLARENCE LEWIS.....	(Mhtn) New York City
CARROLL, ARTHUR.....	(Mhtn) New York City
CHERRY, MODIE JOSEPH.....	(Mhtn) New York City
CLUNE, MATTHEW THOMAS.....	Peekskill, N. Y.
DROGE, HARMAN G.....	(Q) New York City
EBLING, ROBERT WILLIAM.....	(Br) New York City
FERENCZY, ARTHUR (equiv. A.B.). <i>Reale schule, Hungary</i> .....	(Mhtn) New York City
FETTRETCH, CHARLES SIMMONS.....	(Mhtn) New York City
FORD, FREDERIC CARPENTER.....	(Mhtn) New York City
FREUND, MORTIMER.....	(Mhtn) New York City
GOLDBAUM, LOUIS.....	(Bklyn) New York City
HAINES, EDWARD JOSEPH.....	(Bklyn) New York City
HORCASITAS, ANDRES, Jr.....	City of Mexico, Mex.
JENKINS, JOHN CAMERON.....	(Mhtn) New York City
JOLY, CHARLES LEPQUE.....	Asbury Park, N. J.
KAUFMAN, ALFONSE.....	(Mhtn) New York City
KILBOURNE, COVINGTON GUION.....	(Mhtn) New York City
KING, JAMES J.....	(Mhtn) New York City
KNIGHT, CHARLES CUDLIFF.....	(Mhtn) New York City
LANGLÈS, HENRI JUSTIN.....	Pau, France
LEBOWITZ, WILLIAM.....	(Mhtn) New York City

LICHTENBERG, J. CHESTER ALAN ARTHUR.....	(Mhtn)	New York City
LYON, WILLIAM WARREN, Jr.....	(Mhtn)	New York City
MCCARTHY, CHARLES DENNIS.....	(Bklyn)	New York City
MERKLINGER, THEODORE EMIL.....		Newark, N. J.
MILLER, JOHN.....	(Mhtn)	New York City
MOEGLING, BRUNO AUSTRALIAN.....	(Q)	New York City
MORRIS, ALFRED BUTT.....	(Mhtn)	New York City
NADOLSKY, WILLIAM L.....	(Mhtn)	New York City
PALMER, AUSTIN PHELPS.....	(Bklyn)	New York City
POPCKE, ARTHUR GEORGE.....	(Mhtn)	New York City
QUEZADA, CECIL THOMAS.....	(Mhtn)	New York City
RYNIN, SIMON SOLOMON.....	(Mhtn)	New York City
SAQUI, EMANUEL.....	(Mhtn)	New York City
SCHREIBER, HENRY W., Jr.....	(Bklyn)	New York City
SCHWARZKOPF, WILLIAM.....	(Mhtn)	New York City
SOLOW, DAVID EDWARD.....	(Mhtn)	New York City
SUSSMAN, MAX HIRSCH.....		Mohigan, Conn.
TROMPEN, NICHOLAS J.....		Ramsey's, N. J.
VAN WAGENEN, HUGH ROMEYN.....		Denver, Colo.
WATKINS, SAMUEL SHELTON, Jr.....		Owensboro, Ky.
WEISS, HAROLD LAWRENCE.....	(Mhtn)	New York City
WIECHERS, JOHN HENRY.....		Mexico City, Mex.
WILLIAMS, WILSON BISSELL.....		Jersey City, N. J.

## MECHANICAL ENGINEERS

BARNABY, JAMES CHRISTY.....	(Mhtn)	New York City
BATES, GUY.....		Parsippany, N. J.
BORSODY, LOUIS.....	(Mhtn)	New York City
CARPENTER, HAROLD NATHANIEL.....		North Hoosick, N. Y.
CARTER, DOUGLAS SKELTON.....	(Mhtn)	New York City
CURRIER, FRANK PENDER.....	(Mhtn)	New York City
CURTIS, GERALD BECKWITH.....		Brookfield Center, Conn.
DEL RIO, RAMON.....		Barcelona, Spain
DUNLOP, WILLIAM C.....		Richmond, Va.
EWING, GEORGE ROSS MACKENZIE.....	(Mhtn)	New York City
FINCH, JAMES MYERS.....		New Rochelle, N. Y.
FLUHRER, LEWIS PULLMAN.....	(Mhtn)	New York City
FRIED, JEROME ARTHUR.....	(Mhtn)	New York City
GERARD, HANS WEISKIRCH.....	(Bklyn)	New York City
GRACE, CECIL STANLEY.....		Kent, Eng.
GUERRLICH, FRED C.....	(Mhtn)	New York City
HUTTON, MANCIUS SMEDES.....	(Mhtn)	New York City
JORRIN, JULIO.....		Havana, Cuba.
LOCKWOOD, FRANCIS WETMORE.....		Jersey City, N. J.
MERRITT, JOHN ISRAEL.....		Whitestone, L. I.
MERRITT, RALPH VENSON.....		Nelsonville, N. Y.
MESTRE, HAROLD.....	(Mhtn)	New York City
MOSHER, GUY WALTER.....		Cold Spring, N. Y.
NAYLOR, GEORGE, Jr.....		Peeckskill, N. Y.
OLYPHANT, ROBERT MORRISON, Jr.....	(Mhtn)	New York City
OSBORN, RAYMOND STORMS.....		Yonkers, N. Y.
PALMER, FREDERICK LOUIS WILLIAM.....	(Mhtn)	New York City
PIGOTT, REGINALD JAMES SEYMOUR.....	(Mhtn)	New York City
PROTHERVE, ROBERT.....		Port Chester, N. Y.
PURDY, ARTHUR LANE.....		Port Chester, N. Y.
PUTNAM, WORCESTER.....		Brookline, Mass.
RUHE, ARTHUR.....	(Mhtn)	New York City
SCHOONMAKER, RALPH BAILEY.....		Plainfield, N. J.

STARR, AARON.....	(Mhtn) New York City
STEPHENS, WILLIAM VAN VOORHIS.....	(Br) New York City
SUTRO, HERBERT ADOLF.....	(Mhtn) New York City
WAGSTAFF, ALFRED, JR.....	(Mhtn) New York City
WARD, EVERETT, JR.....	(Mhtn) New York City

## METALLURGISTS

HESS, EDWARD.....	(Mhtn) New York City
SHIPP, ELLSWORTH MALTBY.....	Newburgh, N. Y.

## CHEMISTS

BERTHOLD, LEON FORST, A.B., <i>University of Louisville</i> .....	Louisville, Ky.
BOISSE, PIERRE SETH.....	(Mhtn) New York City
HOLLIDAY, EDGAR PERCY.....	(Bklyn) New York City
KIRBY, CUTHBERT MOULLINARD.....	(Q) New York City
KRESS, OTTO.....	(Mhtn) New York City
LOCKWOOD, HAROLD R.....	Bay Shore, L. I.
RAWOLLE, FREDERICK CARL.....	(Bklyn) New York City
SINCLAIR, J. EDWIN.....	Newark, N. J.
WARTH, ALBIN HENRY.....	(R) New York City
WIGGIN, JOHN DAVID.....	Orange, N. J.
WIGGIN, ROLLIN HENRY.....	Orange, N. J.
WYANT, ALECK DE LOCARD.....	(Mhtn) New York City

## FIRST YEAR CLASS

Mining Engineers.....	63
Civil ".....	28
Electrical ".....	46
Mechanical ".....	38
Metallurgists.....	2
Chemists.....	12
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	189

## SPECIAL STUDENTS

ALSBERG, JULIUS, Mech.E., <i>Columbia</i> .....	(Mhtn) New York City
BARNES, ROLAND L.....	Montclair, N. J.
BRITTEN, CLARENCE RAYMOND.....	Jersey City, N. J.
BROWN, STANLEY.....	(Mhtn) New York City
ELLSWORTH, LINCOLN.....	(Mhtn) New York City
GILDERSLEEVE, GEORGE SNYDER, B.S. (C.E.), <i>University of Colorado</i> .....	Denver, Col.
GRIFFIN, GEORGE FRANCIS.....	Chicago, Ill.
GUYER, RAYMOND.....	Lima, Peru
HUDSON, HENDRICK.....	(Mhtn) New York City
KENNEY, FREDERICK JAMES, Ph.G., <i>N. Y. College of Pharmacy</i> .....	(Mhtn) New York City
KINSEY, REGINALD GEORGE.....	Southampton, Eng.
LOUDON, ARCHIBALD MACARTHUR.....	(Mhtn) New York City
McCASKELL, GEORGE WILLIAM.....	Salt Lake City, Utah
McCUNE, RAYMOND.....	Salt Lake City, Utah
MAXWELL, EARL COOK.....	Wheeling, W. Va.
RIDDLE, GEORGE WILLIAM.....	Saranac Lake, N. Y.
ROLAND, NORMAN, A.B., B.S., <i>Harvard</i> .....	(Q) New York City
SALINGER, HERBERT J.....	(Mhtn) New York City
SCOTT, JOHN CALDERHEAD.....	Columbus, Ind.
SERRANO, VICENTE.....	(Mhtn) New York City
SINGER, CHARLES EDWARD.....	Oneida, N. Y.
SULLIVAN, RAYMOND PETER.....	(Bklyn) New York City
SUTTER, MILTON VICTOR.....	(Mhtn) New York City
TAYLOR, JACKSON.....	Newburgh, N. Y.
THAYER, HARRY STANLEY, B.S., <i>University of Colorado</i> .....	Greeley, Colo.
WELSH, WILLIAM HENRY, JR.....	Yonkers, N. Y.
ZIAME, CARL HANS.....	Jersey City, N. J.
Special Students.....	27



## CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

CLEVENGER, GALEN HOWELL.....	Deadwood, S. Dak. South Dakota School of Mines, B.S., 1901. <i>Metallurgy, Chemistry.</i>
SHEPARDSON, JOHN EATON.....	Shabbona Grove, Ill. University of Illinois, B.S., 1895. <i>Civil Engineering, Mechanics.</i>
For Degree of Master of Arts.....	2

## CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

BOLLES, MYRICK NATHANIEL.....	Madison, S. Dak. South Dakota Agricultural College, B.S., 1898. <i>Metallurgy, Mining.</i>
CAMPBELL, WILLIAM.....	Kempsey, Eng. Durham College of Science, B.S., 1898. <i>Metallurgy.</i>
FRANCO, ERNESTO.....	Quito, Ecuador Lehigh University, C.E., 1901; M.S., 1902. <i>Civil Engineering.</i>
For Degree of Doctor of Philosophy.....	3

## SUMMARY

## UNDERGRADUATE STUDENTS

	First Year	Second Year	Third Year	Fourth Year	Totals
SCHOOL OF MINES:					
Mining Engineering.....	63	60	45	20	188
Metallurgy.....	2	2	2	2	8
SCHOOL OF CHEMISTRY.....	12	7	5	11	35
SCHOOL OF ENGINEERING:					
Civil Engineering.....	28	31	26	15	100
Electrical Engineering.....	46	37	29	13	125
Mechanical Engineering.....	38	28	31	18	115
	189	165	138	79	571
Special Students.....					27
Graduate Students:					
For Degree of Master of Arts.....					2
" " Doctor of Philosophy.....					3
					5
STUDENTS PRIMARILY REGISTERED UNDER THIS FACULTY.....					603
STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY.....					
From the College.....					14
TOTAL.....					617

## SCHOOL OF ARCHITECTURE

### Officers

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President of the University*

WILLIAM R. WARE, LL.D. . . . . *Professor of Architecture*

ALFRED D. F. HAMLIN, A.M. . . . . *Adjunct Professor of Architecture*

FRANK DEMPSTER SHERMAN, Ph.B. . . *Adjunct Professor of Architecture*

MAXIMILIAN K. KRESS, A.M., *Curator and Lecturer in Architecture*

GRENVILLE T. SNELLING, S.B., *Instructor in Architectural Engineering*

CHARLES A. HARRIMAN . . . . . *Instructor in Architectural Drawing*

CHARLES P. WARREN, A.M. . . . . *Tutor in Architectural Construction*

WILLIAM T. PARTRIDGE . . . . . *Lecturer in Architectural Design*

HENRY F. HORNOSTEL, Ph.B. . . . . *Lecturer in Architectural Design*

EDWARD R. SMITH, A.B. . . . *Curator of the Avery Architectural Library*

### GENERAL STATEMENT

The School of Architecture, formerly under the Faculty of Applied Science, has now been set apart as an independent school, under the direct administrative control of the President of the University, who represents it in the University Council. The By-Laws of the Faculty of Applied Science, and the regulations for matriculation, enrolment, and registration of that faculty, will, however, still remain in force, as well as the regulations for higher degrees, as set forth in the statement of that Faculty (pp. 273-288).

The School of Architecture offers a four-years' course, leading to the degree of Bachelor of Science, and designed to qualify its graduates either for the active practice of the profession of architecture or for teaching. The instruction given comprises the history of architecture and decorative design; the graphics of design, including the freehand and architectural drawing and the descriptive geometry required by the trained practitioner; exercises in original architectural and decorative design, in each of the four years of the course; and architectural engineering and practice, including the mathematics and engineering of architecture, the study of building materials, practical construction, specifications, and office practice. These courses are supplemented by exercises in reading French and German text-books of architectural history, and by written exercises in historical research and in the analysis and criticism of buildings. In the fourth year those who so

desire may elect a specialized course in Advanced Architectural Engineering and Practice in place of the usual course in Advanced Design. This is arranged by conference with the Professor of Architecture and the Professor of Civil Engineering of the Faculty of Applied Science. Opportunities for advanced study both in design and in construction are afforded to graduates and qualified special students in the school itself, and for study abroad by the Columbia, McKim, and Perkins Travelling Fellowships, which are open to graduates only.

### Admission

Candidates for admission to the first year must be at least eighteen years of age. They are required to pass the examinations in Mathematics, Physics, Chemistry, Drawing, History, English, German, and either French, Spanish, or Latin, prescribed for admission to the Schools of Applied Science (see p. 276). These examinations are held in June and in September. The Regents' Academic Diploma and the certificates of universities and colleges in good standing are accepted in lieu of examination for the subjects which they specifically cover.

Women are not admitted.

### Special Students and Auditors

Any applicant of mature age who is qualified to do so may pursue any of the studies taught in the School as a special student. Draughtsmen in offices who have had three or four years' practical experience are generally qualified to enter the courses in history and design. They are required to pass an examination in architectural drawing, including the five orders, and if conditioned in this subject, will have to make it up before joining the classes in design. They are received for periods of two months at a time. Only those who have given themselves to mathematical and engineering studies will be competent to enter the courses in scientific construction.

All such students may become candidates for a degree by passing the required examinations, and graduate students may prepare themselves to take a higher degree by entering one of the university courses as special students, and may do the work partly in one year and partly in another as may be convenient.

Male students of painting, sculpture, architecture, and decorative design, from any incorporated school of art in New York City, may be admitted as auditors to the courses in Elements of Architecture, Projections and Shades and Shadows, Perspective, History of Architecture and History of Ornament (Courses 1, 2, 3, 5, 6, 7, 8, 10, and 11 (see list upon pages 66-69), upon payment of a fee of \$15 per course. Auditors are not entitled to examination nor to candidacy for degrees.

Undergraduates in Columbia College may elect certain studies in

the first and second year courses of this school; thereby shortening the duration of their professional studies from four years to three. Candidates for the degree of Master of Arts may select approved courses in this school either as major or minor subjects.

### Degrees

The four-years' course in architecture leads to the degree of Bachelor of Science. Men who already hold a Bachelor's degree from a recognized institution may be candidates for the degrees of Master of Arts and Doctor of Philosophy.

Degrees are not conferred upon Special Students.

### Equipment

The equipment of the School consists of about 15,000 photographs and 900 books, the gift of Mr. F. A. Schermerhorn; a classified library of prints and plates; the Avery Architectural Library of over 17,500 volumes; a collection of manuscript drawings from the École des Beaux-Arts; about 10,000 lantern slides of architectural subjects; a collection of casts of architectural details from ancient and modern Roman buildings, the gift of Mr. Charles F. McKim; and an architectural museum containing a collection of models, building stones, tools, and materials. The Avery Library and, under certain restrictions, the collections of the school are accessible every evening. The Willard collection of architectural casts at the Metropolitan Museum is open to students every day and two evenings in the week.

For further particulars see the *Announcement of Courses in the Fine Arts* and the *Bulletin of General Information* of the Schools of Applied Science.

## COURSE IN ARCHITECTURE

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Architecture 1	Architecture 2	Architecture 2	Architecture 12
Architecture 5	Architecture 6	Architecture 6	Architecture 18
Architecture 8	Architecture 11	Architecture 15 (3d year)	Architecture 19
Architecture 10 (1st term)	Architecture 15 (2d year)	Architecture 17 (3d year)	* Architecture 20
Architecture 10 (2d term)	Architecture 16 (2d year)	Arch. 41-42 (3d year)	* Architecture 21
Architecture 15 (1st year)	Architecture 17 (2d year)	Architecture 92 (3d year)	Architecture 92 (4th year)
Architecture 16 (1st year)	Arch. 41-42 (2d year)	Architecture 131	Thesis
Architecture 17 (1st year)	Architecture 92 (2d year)	Architecture 132	
Architecture 91 (1st year)	Architecture 142	Architecture 143	
Architecture 92 (1st year)			
Architecture 93 (1st year)			
Architecture 94 (1st year)			
Architecture 141			

\* Engineering and Practice. See p. 69

## REGISTER OF STUDENTS

### FOURTH YEAR CLASS

BEERS, WILLIAM HERMAN.....	Mamaroneck, N. Y.
FROHNE, HENRY WILLIAM.....	(Br) New York City
GREENE, PHILIP LLEWELLYN.....	(Bklyn) New York City
LABOUISSSE, SAMUEL STANHOPE, B.E., <i>Tulane University</i> .....	New Orleans, La.
LANE, CLARENCE JAMES.....	Mt. Vernon, N. Y.
LUDLOW, THOMAS WILLIAM.....	(Mhtn) New York City
PALLISER, BRUCE SYLVESTER.....	Dobbs Ferry, N. Y.
SMITH, WILSON LEVERING, A.B., <i>Johns Hopkins</i> .....	Baltimore, Md.
STEVENS, SHEPHERD.....	(Bklyn) New York City
WEEKS, LOUIS SEABURY.....	(Mhtn) New York City
Fourth year class .....	10

### THIRD YEAR CLASS

BURTIS, WILLIAM EDGAR.....	(Q) New York City
CAMPBELL, SHIRAS, A.B., <i>Yale</i> .....	Elizabeth, N. J.
CURLETT, ALECK EDWARD.....	San Francisco, Cal.
KENT, ROCKWELL.....	Tarrytown, N. Y.
LOBO, ARTHUR.....	(Mhtn) New York City
MERRITT, CLARENCE CONKLIN.....	(Mhtn) New York City
PERCY, HAROLD FAIRFAX.....	Chatham, N. Y.
SEARS, WILLIAM HATFIELD.....	Fabius, N. Y.
SMITH, CLIFFORD LE ROY.....	(Mhtn) New York City
SQUIRES, FREDERICK, A.B., <i>Williams</i> .....	Plainfield, N. J.
WYNKOOP, JOHN.....	(Mhtn) New York City
Third year class .....	11

### SECOND YEAR CLASS

BOTTOMLEY, WILLIAM LAWRENCE.....	(Mhtn) New York City
BROWN, BEDFORD.....	Washington, D. C.
BUTTERFIELD, WILLIAM HAROLD.....	East Orange, N. J.
CURTIS, NATHANIEL CORTLANDT, Ph.B., <i>University of North Carolina</i> .....	Southport, N. C.
DEAN, EDWARD CLARENCE, Ph.B., <i>Yale</i> .....	Washington, D. C.
ESSELBORN, KARL ADOLPH.....	(Mhtn) New York City
FRANCIS, WILLIAM CARSON.....	Buffalo, N. Y.
JONES, THEODORE MAXWELL.....	(Mhtn) New York City
MCDONALD, ANGUS SNEAD.....	Louisville, Ky.
MARCUS, BERTRAM NATHAN.....	(Mhtn) New York City
OBERLANDER, HENRY CHARLES.....	(Mhtn) New York City
RANDOLPH, HOWARD STELLE FITZ.....	(Mhtn) New York City
SCOTT, FITZHUGH.....	Atlanta, Ga.
TURNBULL, BAYARD, A.B., <i>Johns Hopkins</i> .....	Baltimore, Md.
VIGOUROUX, GUSTAVE GEORGE.....	(Mhtn) New York City
WATERMAN, FRANCIS ELY, A.B., <i>Trinity College</i> .....	(Mhtn) New York City
Second year class .....	16

## FIRST YEAR CLASS

ABBOTT, FRANKLIN, A.B., <i>Yale</i> .....	Pittsburgh, Pa.
CRANE, THEODORE.....	(Mhtn) New York City
DANA, RICHARD HENRY, Jr., A.B., <i>Harvard</i> .....	Cambridge, Mass.
DICKSON, CHARLES F.....	Cincinnati, O.
DUVAL, RIEMAN GORDON.....	(Mhtn) New York City
FARLEY, FRANK CHENEY.....	South Manchester, Conn.
FELDMANN, LEO M.....	Cincinnati, O.
HALL, EDWARD CLINTON.....	Netherwood, N. J.
HAXBY, ROBERT VAN LOAN.....	(Mhtn) New York City
HOOPER, PARKER MORSE, A.B., <i>Harvard</i> .....	Fall River, Mass.
JOHNSTON, EDWIN MADISON.....	Matteawan, N. Y.
KEDIAN, WALTER MARTIN.....	(Mhtn) New York City
KLABER, EUGENE HENRY.....	(Mhtn) New York City
KLENKE, JOHN HENRY, Jr.....	(Mhtn) New York City
LOVELESS, ARTHUR LAMONT.....	Manistee, Mich.
LUITHLEN, WILLIAM.....	(Bklyn) New York City
McLOUGHLIN, THOMAS DURELLE.....	Lima, O.
McMILLIN, RALPH EDWARD.....	North Adams, Mass.
MACK, HAROLD LEWIS.....	(Mhtn) New York City
MEEKS, EVERETT VICTOR, A.B., <i>Yale</i> .....	(Mhtn) New York City
MILLER, THOMAS, Jr.....	(Mhtn) New York City
MORRIS, JOHN BABCOCK, Jr.....	Saugatuck, Conn.
OSTERMAIER, WILLIAM EMERICK.....	Pittsburgh, Pa.
PEABODY, CHARLES SAMUEL, A.B., <i>Harvard</i> .....	(Bklyn) New York City
PECK, HOWARD MORRELL.....	(Mhtn) New York City
SAWYER, JOHN MILLS, A.B., <i>Harvard</i> .....	Philadelphia, Pa.
SCHAAP, MAURICE A.....	(Mhtn) New York City
SEE, EDMUND THORP.....	(Mhtn) New York City
SEYMOUR, ALEXANDER DUNCAN.....	(Bklyn) New York City
SMALLEY, HAROLD LEIGH.....	Plainfield, N. J.
STINSON, JOSEPH WHITTLA.....	(Mhtn) New York City
TEMPLE, HARRY KLINE.....	North Adams, Mass.
WALLS, FRANKLIN JASPER.....	Albany, N. Y.
WARRIN, RICHARD HALSTEAD.....	Cooperstown, N. Y.

First year class ..... 34

## SPECIAL STUDENTS

BAUER, CHARLES HENRY.....	Philadelphia, Pa.
FENTON, WARDEN HANOVER.....	Philadelphia, Pa.
GILMOUR, ROBERT THOM.....	Detroit, Mich.
LINSLY, WILFORD WILLIAMS, A.B., <i>Yale</i> .....	(Mhtn) New York City
MARR, A. GRAHAM, B.S., <i>Princeton</i> .....	Shamokin, Pa.
ORCHARD, WILLIAM HENRY.....	(Mhtn) New York City
SAVING, WILLIAM.....	(Mhtn) New York City
STRUYK, JOHN S.....	Paterson, N. J.
STURTEVANT, THOMAS KIRKBRIDE, B.S., <i>Princeton</i> .....	Wilkes Barre, Pa.
WHITCOMB, RALPH HENRY.....	Milwaukee, Wis.

Special students ..... 10

## SUMMARY

Fourth Year Class.....	10
Third Year Class.....	11
Second Year Class.....	16
First Year Class.....	34
Special Students.....	10
Total.....	81

## FACULTY OF POLITICAL SCIENCE

### Officers of Instruction

ESTABLISHED 1880

- NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*  
JOHN W. BURGESS, Ph.D., LL.D....*Professor of Political Science and  
Constitutional Law, and Dean*  
MUNROE SMITH, J.U.D....*Professor of Roman Law and Comparative  
Jurisprudence, and Secretary*  
FRANK J. GOODNOW, LL.D.....*Professor of Administrative Law*  
EDWIN R. A. SELIGMAN, LL.B., Ph.D...*Professor of Political Economy  
and Finance*  
HERBERT L. OSGOOD, Ph.D.....*Professor of History*  
WILLIAM A. DUNNING, Ph.D.....*Professor of History*  
JOHN BASSETT MOORE, LL.D..*Hamilton Fish Professor of International  
Law and Diplomacy*  
FRANKLIN H. GIDDINGS, Ph.D., LL.D.....*Professor of Sociology*  
JOHN B. CLARK, Ph.D., LL.D.....*Professor of Political Economy*  
JAMES HARVEY ROBINSON, Ph.D.....*Professor of History*  
WILLIAM M. SLOANE, Ph.D., L.H.D., LL.D....*Seth Low Professor of  
History*  
HENRY R. SEAGER, Ph.D.....*Adjunct Professor of Political Economy*  
HENRY L. MOORE, Ph.D.,.....*Adjunct Professor of Political Economy*

### Other Officers

- \* WILLIAM R. SHEPHERD, Ph.D.....*Instructor in History*  
ALVIN S. JOHNSON, A.M.....*Tutor in Economics*  
HARRY A. CUSHING, Ph.D., *Lecturer in History and Constitutional Law*  
JAMES T. SHOTWELL, A.B.....*Lecturer in History*  
GEORGE W. BOTSFORD, Ph.D.....*Lecturer in Ancient History*  
GEORGE JAMES BAYLES, Ph.D.....*Prize Lecturer, 1900-03*

### GENERAL STATEMENT

The Faculty of Political Science has charge of the university courses of instruction and research in political and social science, including history, economics, public law, and comparative jurisprudence.

\* Absent on leave.



The School of Political Science was opened on Monday, the fourth day of October, 1880.

It is the purpose of the school to give a complete general view of all the subjects of public policy, both internal and external, from the three-fold point of view of history, law, and philosophy. The prime aim is, therefore, the development of all the branches of the political and social sciences. The secondary and practical objects are:

- (a) To fit young men for all political branches of the public service.
- (b) To give an adequate economic and legal training to those who intend to make journalism their profession.
- (c) To supplement, by courses in public law and comparative jurisprudence, the instruction in private municipal law offered by the Faculty of Law.
- (d) To educate teachers of history, economics, social science, public law, and jurisprudence.

Young men who wish to obtain positions in the United States civil service—especially in those positions for which special examinations are held—will find it advantageous to follow many of the courses under the Faculty of Political Science. Some of the subjects upon which applicants for these positions are examined are treated very fully in the curriculum of the school. Thus, extended courses of lectures are given on political history, diplomatic history and international law, government, statistics, finance, and administration. Courses are offered also on colonial history and administration, colonial economics, the governmental organization of the territories and dependencies of the United States, and Spanish civil law.

The work in economics and sociology falls under three heads, viz.: the university courses of instruction in the various departments of economics and social science, the work in the statistical laboratory, and the "field-work," or practical work in connection with the Charity Organization Society, the Brooklyn Bureau of Charities, the State Charities Aid Association, the University Settlement Society of New York City, and the East Side House. These are fully explained in the detailed Announcement of the School of Political Science.

## ADMISSION AND ATTENDANCE

Every student is required to file a list of his studies for the academic year at the time he registers, or within one week thereafter, at the office of the Registrar. If he subsequently wishes to make any change in his studies he must file written notice of his wish at the Dean's office, and must obtain the assent of the Dean.

Immediate written notice must be given to the Dean of any change of address.

Admission to the School of Political Science does not imply admission to candidacy for a degree. The conditions of candidacy for the several degrees are given below.

Women who hold a baccalaureate degree are admitted to the School of Political Science as students in history and economics and may become candidates for the higher degrees.

### ADMISSION TO OTHER COURSES

Any duly matriculated university student is at liberty to combine, without any additional fee, courses of study and investigation under this Faculty with courses offered by other Faculties of the University, and with courses offered in the College.

### FEEES

(See page 19)

### CANDIDATES FOR A DEGREE

Students are received as candidates for the degree of Master of Arts, Master of Laws, or Doctor of Philosophy.

If the applicant is a candidate for a degree, he must file a certificate furnishing evidence of his completion of the junior year, or, if he holds a degree from any institution, he must file diplomas or certificates sufficient to furnish evidence of such degree or degrees. Blanks for this purpose may be secured at the office of the Registrar. Certificates of graduation or dismissal from institutions of learning in foreign countries are also accepted. The certificates should be accompanied by catalogues or calendars of the colleges or other institutions of advanced grade at which the student has previously studied, which must be marked so as to show clearly his course of study there. This condition may be dispensed with in the case of those colleges and institutions whose bachelor's degree is recognized by the University Council as a basis for the higher degrees.

Students may present themselves for examination for the degree of Ph.D. at any time during the year, whenever the requirements have been complied with. For these requirements see pages 203-209.

### COURSES OF INSTRUCTION

For the courses offered in 1902-03 (and for information as to which of these courses are open to Seniors in the College, and which to women), see statement under groups of subjects, as follows:

History and Political Philosophy, page 116.

Public Law and Comparative Jurisprudence, page 123.

Economics and Social Science, page 92.

For more detailed accounts of the courses and for the tender of 1903-04, application should be made for the *Announcement of the Faculties of Political Science, Philosophy, and Pure Science*.

### Seminars

Outside of the regular instruction in the various subjects by lecture, it is the practice to furnish the students of the school an opportunity for special investigation of historical, legal, economic, and social questions under the direction of the professors. This is done by means of original papers prepared by the students. The papers are read before the professor and the students, and are then criticised and discussed. There will be at least one seminar in each subject. The number of meetings and the topics to be discussed are determined each year. Attendance at the seminar in the major subject is necessary on the part of candidates for the degree of Master of Arts or Doctor of Philosophy.

## FACULTY OF PHILOSOPHY

ESTABLISHED 1890

- NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President, and Professor of  
Philosophy and Education*
- THOMAS RANDOLPH PRICE, M.A., LL.D. . . . *Professor of the English Lan-  
guage and Literature*
- HARRY THURSTON PECK, Ph.D., L.H.D. . . . *Professor of the Latin Lan-  
guage and Literature*
- WILLIAM HENRY CARPENTER, Ph.D. . . . *Villard Professor of Germanic  
Philology*
- JAMES MCKEEN CATTELL, Ph.D. . . . . . *Professor of Psychology*
- EDWARD DELAVAN PERRY, Ph.D. . . . *Jay Professor of the Greek Language  
and Literature, and Dean*
- ABRAHAM VALENTINE WILLIAMS JACKSON, L.H.D., Ph.D. . . *Professor of  
Indo-Iranian Languages*
- ADOLPHE COHN, LL.B., A.M. . . . . *Professor of the Romance Languages  
and Literatures*
- GEORGE EDWARD WOODBERRY, A.B. . . . . *Professor of Comparative  
Literature*
- BRANDER MATTHEWS, Litt.D., D.C.L. . . *Professor of Dramatic Literature*
- RICHARD JAMES HORATIO GOTTHEIL, Ph.D. . . . *Professor of Rabbinical  
Literature and the Semitic Languages*
- HENRY ALFRED TODD, Ph.D. . . . . *Professor of Romance Philology*
- GEORGE RICE CARPENTER, A.B. . . . . *Professor of Rhetoric and English  
Composition, and Secretary*
- JAMES RIGNALL WHEELER, Ph.D. . . . . *Professor of Greek*
- JAMES CHIDESTER EGBERT, Jr., Ph.D. . . *Professor of Roman Archæology  
and Epigraphy*
- \* JAMES HERVEY HYSLOP, Ph.D. . . . . *Professor of Logic and Ethics*
- CALVIN THOMAS, A.M. . . . *Gebhard Professor of the Germanic Languages  
and Literatures*
- CARLO LEONARDO SPERANZA, LL.B., A.M. . . . . *Professor of Italian*
- \* EDWARD ALEXANDER MACDOWELL, Mus. Doc. . . . *Professor of Music*
- FRANZ BOAS, Ph.D. . . . . *Professor of Anthropology*
- JAMES EARL RUSSELL, Ph.D. . . . *Professor of the History of Education*

\* Absent on leave.

- FRANK MORTON McMURRY, Ph.D. . . . *Professor of the Theory and Practice of Teaching*
- WILLIAM PETERFIELD TRENT, M.A., LL.D. . . . *Professor of the English Language and Literature*
- MORTIMER LAMSON EARLE, Ph.D. . . . *Professor of Classical Philology*
- GONZALEZ LODGE, Ph.D., LL.D. . . . *Professor of Latin and Greek in Teachers College*
- NELSON GLENN MCCREA, Ph.D. . . . *Adjunct Professor of Latin*
- CLARENCE HOFFMAN YOUNG, Ph.D. . . . *Adjunct Professor of Greek*
- LIVINGSTON FARRAND, A.M., M.D. . . . *Adjunct Professor of Psychology*
- SAMUEL TRAIN DUTTON, A.M. . . . *Professor of School Administration in Teachers College*
- PAUL MONROE, Ph.D. . . . *Adjunct Professor of the History of Education in Teachers College*
- FREDERICK JAMES EUGENE WOODBRIDGE, A.M. . . . *Professor of Philosophy*
- JOHN DYNELEY PRINCE, Ph.D. . . . *Professor of the Semitic Languages*
- FRANKLIN THOMAS BAKER, A.M. . . . *Professor of English Language and Literature in Teachers College*
- JULIUS SACHS, Ph.D. . . . *Professor of Secondary Education in Teachers College*
- FRIEDRICH HIRTH, Ph.D. . . . *Dean Lung Professor of Chinese*
- FELIX ADLER, Ph.D. . . . *Professor of Social and Political Ethics*
- EDWARD LEE THORNDIKE, Ph.D. . . . *Adjunct Professor of Genetic Psychology in Teachers College*

## GENERAL STATEMENT

The Faculty of Philosophy has charge of the university courses of instruction and research in philosophy, philology, and letters. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by the Faculties of Law, Medicine, Political Science, Pure Science, and Applied Science.

Students are received either as candidates for the degrees of Master of Arts and Doctor of Philosophy, or to pursue special or partial courses. Some courses of lectures are open to the public, men and women alike, on payment of an auditor's fee. No auditor will be admitted to any course without the consent of the instructor, previously obtained. Auditors do not have, and cannot receive, any university recognition whatever.

Students enrolled either in the General, the Union, or the Jewish Theological Seminary, in the City of New York, or in the Drew Theological Seminary at Madison, N. J., or in St. Joseph's Theological Seminary at Yonkers, N. Y., who may be designated for the privilege by the authorities of those institutions, and accepted by the President

of Columbia University, are admitted to the courses offered by the Faculty of Philosophy free of any charge for tuition.

Students enrolled in the Art Schools of the Metropolitan Museum of Art, who may be designated for the privilege by the authorities of those schools, and accepted by the President of Columbia University, are permitted to attend the courses of lectures on archæology and æsthetics free of any charge of tuition.

Duly qualified students of Teachers College are permitted to enter the courses offered by the Faculty of Philosophy, either as candidates for degrees or as special students.

All of these institutions offer reciprocal privileges to students of Columbia University.

### ADMISSION AND ATTENDANCE

Candidates for the degrees of Master of Arts and Doctor of Philosophy must hold a bachelor's degree from some college in good standing, or present satisfactory evidence of having completed an equivalent course of study at a foreign institution, and must remain in residence for not less than one and two years, respectively. They are required to pursue courses of study and research in one major and two minor subjects, the number of hours of attendance per week being adjusted to the needs and demands of the individual student. University residence of not less than three years is usually necessary in order to obtain the degree of Doctor of Philosophy.

In the Faculty of Philosophy admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are admitted to candidacy for the degree of Doctor of Philosophy who

1. Are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie;
2. Are certified as to their ability to read French and German by the heads of those departments;
3. Are certified as to their ability to read Latin by the head of that department; provided that students whose major subject is psychology, anthropology, education, or music shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches.

When a student is admitted to candidacy for the degree of Doctor of Philosophy, he may be credited with his past period of university residence, at Columbia, or elsewhere, or with so much thereof as may be determined by the Dean and the professor in charge of the candidate's major subject.

Students who are not candidates for a degree are admitted to any courses which they are found competent to undertake. Such students must, however, possess the qualifications for admission named above.

There are no examinations for admission, either as candidates for a

degree or as special students. Students are admitted at any time during the year, and may present themselves for examination for a degree whenever the requirements as to residence and an essay or dissertation have been complied with.

For fees see page 19.

### COURSES OF STUDY AND RESEARCH

For the courses offered for 1902-03, see departmental statements as follows:

Anthropology, page 65.

Philosophy and Psychology, page 160.

Greek (including Archæology and Epigraphy), page 113.

Latin (including Epigraphy and Roman Archæology), page 119.

English, page 104.

Comparative Literature, page 90.

Education, page 96.

Germanic Languages, page 108.

Romance Languages:

French, page 175.

Italian, page 176.

Spanish, page 177.

Provençal, page 176.

Portuguese and Rumanian, pages 177 and 178.

Romance Philology, page 178.

Oriental Languages:

Semitic, page 153.

Indo-Iranian, page 151.

Chinese, page 150.

Science of Language, page 153.

#### *Courses at the Union Theological Seminary*

New Testament Greek, page 114.

Ethics, page 161.

Philosophy of Religion, page 162.

For the courses to be offered for 1903-04, application should be made for the *Announcement of the Schools of Philosophy, Political Science, and Pure Science*, and the various departmental circulars, which may be had after April 15.

## FACULTY OF PURE SCIENCE

ESTABLISHED 1892

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.,	<i>President</i>
J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D.	<i>Professor of Mathematics</i>
CHARLES F. CHANDLER, M.D., Ph.D., LL.D., Sc.D.	<i>Professor of Chemistry</i>
JOHN K. REES, E.M., Ph.D.	<i>Professor of Astronomy, and Director of the Observatory</i>
JOHN G. CURTIS, M.D.	<i>Professor of Physiology</i>
ALFRED J. MOSES, E.M., Ph.D.	<i>Professor of Mineralogy</i>
GEORGE S. HUNTINGTON, M.D.	<i>Professor of Anatomy</i>
HENRY FAIRFIELD OSBORN, Sc.D.	<i>Da Costa Professor of Zoölogy</i>
EDMUND B. WILSON, Ph.D., LL.D.	<i>Professor of Zoölogy</i>
JAMES F. KEMP, A.B., E.M.	<i>Professor of Geology</i>
WILLIAM HALLOCK, Ph.D.	<i>Professor of Physics, and Secretary</i>
MICHAEL I. PUPIN, Ph.D.	<i>Professor of Electro-Mechanics</i>
T. MITCHELL PRUDDEN, M.D., LL.D.	<i>Professor of Pathology</i>
ROBERT S. WOODWARD, C.E., Ph.D.	<i>Professor of Mechanics and Mathematical Physics, and Dean</i>
THOMAS SCOTT FISKE, Ph.D.	<i>Professor of Mathematics</i>
HAROLD JACOBY, Ph.D.	<i>Adjunct Professor of Astronomy</i>
FRANK N. COLE, Ph.D.	<i>Adjunct Professor of Astronomy</i>
FREDERIC S. LEE, Ph.D.	<i>Adjunct Professor and Demonstrator of Physiology</i>
BASHFORD DEAN, Ph.D.	<i>Adjunct Professor of Zoölogy</i>
LUCIEN MARCUS UNDERWOOD, Ph.D.	<i>Professor of Botany</i>
JAMES MACLAY, C.E., Ph.D.	<i>Adjunct Professor of Mathematics</i>
EDMUND HOWD MILLER, Ph.D.	<i>Adjunct Professor of Analytical Chemistry and Assaying</i>
MARSTON TAYLOR BOGERT, A.B., Ph.B.	<i>Adjunct Professor of Organic Chemistry</i>
J. LIVINGSTON RUTGERS MORGAN, Ph.D.	<i>Adjunct Professor of Physical Chemistry</i>
HENRY E. CRAMPTON, Ph.D.	<i>Adjunct Professor of Zoölogy</i>
WILLIAM J. GIES, M.S., Ph.D.	<i>Adjunct Professor of Physiological Chemistry</i>



- AMADEUS W. GRABAU, S.D. . . . *Adjunct Professor of Palæontology and Stratigraphical Geology*  
 JOHN FRANCIS WOODHULL, Ph.D. . . . *Professor of Physical Science in Teachers College*  
 RICHARD ELWOOD DODGE, A.M. . . . *Professor of Geography in Teachers College*  
 FRANCIS ERNEST LLOYD, A.M. . *Professor of Biology in Teachers College*  
 DAVID EUGENE SMITH, Ph.D. . . *Professor of Mathematics in Teachers College*

### GENERAL STATEMENT

The Faculty of Pure Science has charge of the university courses of instruction and research in all branches of pure science, and especially the supervision of candidates for the degrees of Master of Arts and Doctor of Philosophy in pure science. Students under other university faculties are also at liberty to pursue courses of study and investigation under this Faculty.

Candidates for the higher degrees taking major subjects in pure science will be regarded as under the special jurisdiction of this Faculty.

In the Faculty are represented all the departments of the University which give instruction in pure science.

Graduate students, candidates for the degree of Master of Arts or Doctor of Philosophy, are subject:

1. To the general regulations of the University Council. (See pages 203-209.)
2. To the special regulations of this Faculty.

### Special Regulations of the Faculty of Pure Science

The degree of Doctor of Philosophy is awarded on the basis of a thorough training in the methods of advanced work and investigation in some branch of science. The following statements are offered for the guidance of students. In the case of students of special ability or exceptional previous training, the Faculty may modify its usual regulations.

The student is expected to gain a sound general knowledge of the two minor subjects of his choice. In the major subjects a much more thorough and special knowledge is required, particular importance being attached to training in research. In order to avoid undue specialization, no two subjects may be chosen from the same department without the consent of the Faculty.

One year's study in residence in the University is required for the degree of Master of Arts, and three years' study for the degree of Doctor of Philosophy, at least one year of which shall be in residence. Candidates for either of these degrees are expected to devote at least one half their time throughout their course of study to the major subject. In the case of laboratory courses this implies two days a week, or its equivalent, as determined by each department. Each

minor subject is intended to occupy approximately one fourth of the time during one year for the degree of Master of Arts, and during one or two years, according to the nature of the subject and the previous training of the candidate, for the degree of Doctor of Philosophy. It is expected that the third year of study, and in certain cases both the second and the third years, will be wholly devoted to the major subject and to investigation for the dissertation.

The approval of the subject of the essay required for the degree of Master of Arts, or the subject of the dissertation required for the degree of Doctor of Philosophy, as well as the essay or dissertation itself, rests with the instructor in charge of the candidate's major subject. It is desirable that these studies should be related, and, when practicable, that they should be treated respectively as preliminary and completed investigations. Great importance is attached to the character of the final dissertation. While it must depend for acceptance chiefly on the subject-matter, it should show good literary workmanship, especially by directness and clearness of statement. It should demonstrate the author's capacity to do original scientific work, and to render an intelligible account thereof. It should evince a familiarity with the literature of the subject, and with the latest methods of research applicable to it. The treatment should be as concise as the nature of the work permits. Every dissertation should be preceded by a clear introductory statement setting forth the nature and the scope of the research, and be followed by a résumé of the results and the conclusions obtained. It should also be accompanied by a table of contents and by a list of the authorities consulted in its preparation.

### Special Students

Students who are not candidates for a degree may be permitted to pursue such courses from among those offered by this Faculty as they may be found qualified to enter upon. Each applicant must demonstrate his preparation for, and his ability to pursue, the course or courses selected, and of his qualifications the heads of the departments in which he proposes to study shall be the judges. In general these special courses are open only to advanced students.

### COURSES OF STUDY

For the courses offered for 1902-03, see departmental statements as follows:

Anatomy, page 61.

Astronomy, page 69.

Bacteriology, page 158.

Botany, page 72.

Chemistry, page 78.

**Geology**, page 107.

**Mathematics**, page 125.

**Mechanics**, page 135.

**Mineralogy**, page 140.

**Physics**, page 165.

**Physiological Chemistry**, page 168.

**Physiology**, page 169.

**Zoölogy**, page 181.

For more detailed accounts of the courses and for the tender of 1903-04, application should be made for the *Announcement of the Schools of Political Science, Philosophy, and Pure Science*.

## REGISTER OF STUDENTS

### Under the Faculties of Political Science, Philosophy, and Pure Science

- AARON, Rev. A. .... Passaic, N. J.  
Augsburg College, A.B., 1893.  
*American History, European History, German Language and Literature.*
- † ABBOTT, FREDERICK BANCROFT. .... Providence, R. I.  
College of Emporia, Kan., B.S., 1900; M.S., 1902.  
*Education, Philosophy.*
- ABRAMOWITZ, HERMAN. .... (Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Philosophy.*
- ABURATANI, JIROSHICHI. .... Kyoto, Japan  
Doshisha College (Kyoto, equiv. A.B.), 1894.  
*Sociology and Statistics, European History.*
- AGGER, EUGENE EWALD. .... Bond Hill, O.  
University of Cincinnati, A.B., 1901; A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- ALSBERG, ELSA. .... (Mhtn) New York City  
Columbia University, A.B., 1902.  
*Comparative Literature, Spanish Language and Literature.*
- ANDREWS, GERTRUDE. .... Newark, N. J.  
Woman's College of Baltimore, A.B., 1901.  
*English Language and Literature, Education.*
- ANSPACHER, LOUIS KAUFMAN. .... (Mhtn) New York City  
College of the City of New York, A.B., 1897.  
Columbia University, A.M., 1899; LL.B., 1902.  
*Philosophy.*
- ATKINSON, JOHN HAMPTON. .... (Mhtn) New York City  
Ohio University, Ph.B., 1897.  
Columbia University, A.M., 1901.  
*English Language and Literature.*
- † AUSTIN, ISABELLA. .... Minneapolis, Minn.  
University of Minnesota, B.L., 1895.  
*Education, English.*
- AYRES, MARY STEVENS. .... (Mhtn) New York City  
Wellesley College, A.B., 1900.  
*Comparative Literature.*
- BACKUS, ALFRED HALL. .... Marion, Ind.  
Taylor University, A.M., 1902.  
*Sociology and Statistics, European History.*
- BAESLACK, FREDERICK WILLIAM. .... Fitchburg, Mass.  
Amherst College, A.B., 1902.  
*Zoology, Physiology.*
- † BAILEY, HELEN WINONA. .... Leadville, Colo.  
Colorado College, A.B., 1896.  
*Education, Latin.*
- BAKER, FRANK CLYDE. .... (Mhtn) New York City  
Oberlin College, A.B., 1886.  
Yale University, B.D., 1890.  
New York Law School, LL.B., 1900.  
*Constitutional Law, Administrative Law, Sociology and Statistics.*

† Also a Candidate for the Master's Diploma, Teachers College.

‡ Also a Candidate for the Bachelor's Diploma, Teachers College.

- BALDWIN, AGNES.....Newark, N. J.  
Columbia University, A.B., 1897; A.M., 1900.  
*Greek Language and Literature.*
- \*BALDWIN, ARTHUR POND.....(Mhntn) New York City  
College of the City of New York, A.B., 1876.  
Columbia University, A.M., 1901.  
*Education, Sociology and Statistics.*
- BALDWIN, FLORENCE THEODORA.....(Mhntn) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*Latin Language and Literature, Greek.*
- BALDWIN, SARAH LILIAN.....West Orange, N. J.  
Cornell University, A.B., 1902.  
*Romance Languages and Literatures, German Language and Literature.*
- BALL, MARGARET ELIZABETH.....Passaic, N. J.  
Mt. Holyoke College, A.B., 1900.  
*English Language and Literature, Education.*
- BANTA, EFFIE MARGARET.....(Bklyn) New York City  
Wellesley College, A.B., 1891.  
*Comparative Literature.*
- BARBER, CORA LIVINGSTON.....(Bklyn) New York City  
Adelphi College, A.B., 1901.  
*English Language and Literature, Education.*
- BARR, EARL ESHLEMON.....Quincy, Ill.  
Knox College, B.S., 1902.  
*Political Economy and Finance, European History, Constitutional Law, Administrative Law.*
- BASS, BERTHA.....(Mhntn) New York City  
Wesleyan University, A.B., 1886; A.M., 1889.  
*Ancient History.*
- BATCHELDER, MARGARET GOLD.....River Edge, N. J.  
Allegheny College, A.B., 1900.  
*Sociology and Statistics.*
- BAYNE, STEPHEN FIELDING.....(Mhntn) New York City  
College of the City of New York, B.S., 1898.  
*Education, English.*
- BEANS, HAL TRUMAN.....Omaha, Neb.  
University of Nebraska, B.S., 1899; A.M., 1900.  
*Chemistry, Physics.*
- BEARD, CHARLES AUSTIN.....Indianapolis, Ind.  
De Pauw University, Ph.B., 1898.  
*Constitutional Law, European History, American History.*
- BEARD, MARY RITTER.....Indianapolis, Ind.  
De Pauw University, Ph.B., 1897.  
*Sociology and Statistics.*
- BEATTY, LEON OLIVER.....Lexington, Ky.  
Kentucky University, B.S., 1899; M.S., 1900.  
*Chemistry, Electrical Engineering, Metallurgy.*
- BECKWITH, FRANCES A.....Utica, N. Y.  
Vassar College, A.B., 1897.  
*European History.*
- BENNETT, HARRY BURTIS.....Storm Lake, Ia.  
Cornell College, Ph.B., 1901.  
*Political Economy and Finance, Sociology and Statistics, Administrative Law.*
- BERG, CLARA DE LISSA.....(Mhntn) New York City  
Columbia University, A.B., 1898; A.M., 1902.  
*Comparative Literature, European History.*
- BERNARD, ROBERT WYCKOFF.....(Mhntn) New York City  
New York Law School, LL.B., 1902.  
*Political Economy and Finance, American History, Political Philosophy.*

\* Also a Candidate for the Doctor's Diploma, Teachers College.

- BERNHEIMER, EDGAR JULIUS.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Constitutional Law, International Law, Political Economy and Finance.*
- BIGELOW, LEWIS SHERRILL.....(Mhtn) New York City  
Yale University, A.B., 1887; LL.B., 1889.  
*Comparative Literature, European History.*
- BIGONGIARI, DINO.....(Bklyn) New York City  
Columbia University, A.B., 1902.  
*Latin Language and Literature, Greek, French Language and Literature.*
- BINION, SAMUEL AUGUSTUS.....(Mhtn) New York City  
Maryland University, M.D., 1886.  
*Chinese Language and Literature.*
- BLOCK, SAMUEL JOHN.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Administrative Law.*
- BONSALL, VICTOR FITCH MOUNT.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Latin Language and Literature, Greek.*
- BOWMAN, HAROLD MARTIN.....Des Moines, Ia.  
University of Michigan, LL.B., 1899; B.L., 1900; A.M., 1901.  
*Administrative Law, Constitutional Law, Political Economy and Finance.*
- BOYD, WILLIAM KENNETH.....Durham, N. C.  
Trinity College (N. C.), A.B., 1897; A.M., 1898.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- BOYLAN, ARTHUR ALOYSIUS.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*American History.*
- BRACKETT, MARY MORRELL.....(Mhtn) New York City  
Columbia University, A.B., 1899.  
*Botany.*
- \*BROOKS, JOHN LEE.....(Mhtn) New York City  
Southwestern University, A.M., 1893.  
Drew Theological Seminary, B.D., 1900.  
*Education.*
- BROWN, FRED LE ROY.....(Mhtn) New York City  
Williams College, A.B., 1899; A.M., 1900.  
Harvard University, A.M., 1901.  
*Philosophy, Sociology and Statistics.*
- †BROWN, JESSIE LOUISE PRESTON.....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*Education, European History.*
- †BROWN, LIBERTA ROSS.....Forest Grove, Ore.  
Pacific University, A.B., 1899.  
*Education, Latin.*
- BRUES, CHARLES THOMAS.....(Mhtn) New York City  
University of Texas, B.S., 1901; M.S., 1902.  
*Zoology, Botany, Physiology.*
- BUCKHOUT, NATHAN WHITE.....State College, Pa.  
Pennsylvania State College, B.S., 1899.  
*English Language and Literature, European History, Sociology and Statistics.*
- BUCKHOUT, WILLIAM HARKNESS.....State College, Pa.  
Pennsylvania State College, B.S., 1901.  
*Chemistry, Geology, Metallurgy.*
- BUNNELL, ELIZABETH HANKINSON.....Tunkhannock, Pa.  
Mt. Holyoke College, A.B., 1894.  
Columbia University, A.M., 1902.  
*Education, Latin.*

\* Also a candidate for the Doctor's Diploma, Teachers College.

† Also a candidate for the Master's Diploma, Teachers College.

† Also a candidate for the Bachelor's Diploma, Teachers College.

- †BURCHARD, ANNA TERRESSA.....Hamilton, N. Y.  
Vassar College, A.B., 1897.  
*Education, Mathematics.*
- †BURRITT, BAILEY BARTON.....Chili Station, N. Y.  
University of Rochester, A.B., 1902.  
*Education, Philosophy.*
- BURRITT, MARION TILDEN.....(Br) New York City  
Smith College, B.L., 1892.  
*English Language and Literature.*
- BYRNES, JAMES CHARLES.....(Mhtn) New York City  
College of the City of New York, B.S., 1886.  
New York University, Ph.M., 1897.  
*Philosophy, Psychology.*
- CAHN, MRS. ARTHUR L.....(Mhtn) New York City  
Columbia University, A.B., 1901.  
*Comparative Literature, French Language and Literature.*
- CAMPBELL, HERBERT GRANT.....Sheldon, Ia.  
Cornell College, Ph.B., 1896.  
Columbia University, A.M., 1902.  
*Philosophy, Psychology, European History.*
- CANFIELD, DOROTHEA FRANCES.....(Mhtn) New York City  
Ohio State University, Ph.B., 1899.  
*Romance Languages and Literatures, Romance Philology.*
- CAPEN, OLIVER BRONSON.....Binghamton, N. Y.  
Hobart College, A.B., 1902.  
*English Language and Literature, Comparative Literature.*
- CAPRON, HAROLD STEARNS.....Providence, R. I.  
Brown University, A.B., 1900.  
*Sociology and Statistics, Political Economy and Finance.*
- CARLL, LYDIA ADELE.....Whitestone, L. I.  
Columbia University, A.B., 1902.  
*Comparative Literature, English.*
- CARPENTIER, MARIUS ALEXANDRE.....(Mhtn) New York City  
College of the City of New York, B.S., 1889.  
*Romance Languages and Literatures, German Language and Literature.*
- CARROLL, SARAH MAUDE.....Lynchburg, Va.  
Randolph Macon Woman's College, A.B., 1902.  
*English Language and Literature, Comparative Literature, European History.*
- \*CARSS, ELIZABETH.....(Mhtn) New York City  
Cornell University, Ph.B., 1895.  
*Education, Botany, Zoology.*
- CARSTENSEN, GUSTAV ARNOLD.....Riverdale, N. Y.  
Hobart College, A.B., 1873.  
New York University, A.M., 1902.  
*Semitic Languages and Literatures.*
- CHAMBERLAIN, ELIZABETH.....Chappaqua, N. Y.  
Vassar College A.B., 1876.  
*Germanic Languages and Literatures, French Language and Literature.*
- CHANDOR, VALENTINE LAURA.....(Mhtn) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*European History.*
- CHASE, LEWIS NATHANIEL.....(Mhtn) New York City  
Columbia University, A.B., 1895; A.M., 1898.  
*Comparative Literature.*
- CHICKERING, EDWARD CONNER.....Jamaica, L. I.  
Yale University, A.B., 1896.  
Harvard University, A.M., 1897.  
*Latin Language and Literature.*

\* Also a candidate for the Doctor's Diploma, Teachers College.

† Also a candidate for the Master's Diploma, Teachers College.

- CHURCHILL, MARTHA BELLE.....Springville, N. Y.  
Syracuse University, A.B., 1896.  
New York University, A.M., 1900.  
*Latin Language and Literature.*
- CLARK, ALDEN HYDE.....(Mhtn) New York City  
Amherst College, A.B., 1900.  
*Sociology and Statistics.*
- †CLARK, LAURA SOPHRONIA.....Randolph, Vt.  
Middlebury College, B.S., 1894.  
*Education.*
- CLARK, MARTHA MILLER.....(Bklyn) New York City  
Vassar College, A.B., 1897; A.M., 1898.  
*Latin Language and Literature.*
- CLARK, WALTER ERNEST.....Delaware, O.  
Ohio Wesleyan University, A.B., 1896; A.M., 1898.  
*Political Economy and Finance, Sociology and Statistics.*
- CLUM, HAROLD DUNSTAN.....Saugerties, N. Y.  
St. Stephen's College, A.B., 1901.  
*Latin Language and Literature, Greek.*
- COBB, PALMER.....Danville, Va.  
University of North Carolina, Ph.B., 1901.  
*Germanic Languages and Literatures, Romance Philology.*
- CODDINGTON, EMILY MATILDA.....(Mhtn) New York City  
London University, A.B., 1896.  
Columbia University, A.M., 1898.  
*Mechanics.*
- COE, MIRIAM STORRS.....(Mhtn) New York City  
Smith College, B.S., 1899.  
*Zoology.*
- \*COFFEE, RUDOLPH I.....Oakland, Cal.  
Columbia University, A.B., 1900.  
*Education, Philosophy.*
- COHEN, MORRIS RAPHAEL.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Philosophy, Psychology, Sociology and Statistics.*
- \*COLBURN, HARRISON S.....(Mhtn) New York City  
Purdue University, B.S., 1900.  
Columbia University, A.M., 1902.  
*Education, Sociology and Statistics.*
- COLLES, JULIA NELSON.....Morristown, N. J.  
Wellesley College, A.B., 1897.  
Smith College, A.M., 1900.  
*Physics.*
- COLLOQUE, ORROK PAUL.....Sewaren, N. J.  
Trinity College (Hartford), A.B., 1890.  
New York University, A.M., 1901.  
*Philosophy, English, European History.*
- COLTER, MARY CULBERTSON.....Meadville, Pa.  
Allegheny College, A.B., 1898.  
*English Language and Literature, Education.*
- COMPTON, ALFRED DONALDSON.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*Comparative Literature, French Language and Literature.*
- CONANT, MARTHA PIKE.....Greenfield, Mass.  
Wellesley College, B.S., 1890; A.M., 1895.  
*Comparative Literature, English.*

\* Also a candidate for the Doctor's Diploma, Teachers College.

† Also a candidate for the Bachelor's Diploma, Teachers College.



- CONANT, SARAH HOWARD.....No. Thetford, Vt.  
Wellesley College, B.S., 1887.  
*Ancient History, Greek.*
- COPE, FRANCIS REEVE, JR.....Germantown, Pa.  
Harvard University, A.B., 1901; A.M., 1902.  
*Administrative Law*
- CORDLEY, ANNIE MINTO.....Glen Ridge, N. J.  
Wellesley College, B.S., 1887.  
*Sociology and Statistics, European History.*
- COSENZA, MARIO EMILIO.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.  
*Latin Language and Literature, Italian Language and Literature, Ancient History.*
- CRAIGHEAD, ETHEL.....(Q) New York City  
Smith College, B.L., 1898.  
*Political Economy and Finance, Sociology and Statistics.*
- CRABINE, WINIFRED ROOSA.....Detroit, Mich.  
University of Michigan, B.L., 1895.  
*American History.*
- †CRAMER, MARY EVA.....Portland, Conn.  
Wesleyan University, Ph.B., 1895.  
*Education, English.*
- CRANDALL, SAMUEL BENJAMIN.....Independence, N. Y.  
Alfred University, B.S., 1897.  
*International Law.*
- CRAWFORD, LEONIDAS WAKEFIELD, JR.....Greensboro, N. C.  
Trinity College (Durham, N. C.), A.B., 1898.  
*English Language and Literature, Education.*
- CUMMINGS, FREDERIC ANSON.....Spartanburg, S. C.  
Wofford College, A.B., 1896; A.M., 1901.  
*English Language and Literature, Comparative Literature.*
- CUSHING, MARY GERTRUDE.....(Mhtn) New York City  
Wellesley College, B.S., 1892; A.M., 1895.  
*Romance Languages and Literatures, Romance Philology, Latin.*
- DALY, ELIZABETH TERESA.....Yonkers, N. Y.  
Bryn Mawr College, A.B., 1901.  
Columbia University, A.M., 1902.  
*Comparative Literature, English.*
- DAVENPORT, FREDERICK MORGAN.....Yonkers, N. Y.  
Wesleyan University, A.B., 1889.  
*Sociology and Statistics, Political Economy and Finance.*
- DAVIDOFF, HENRY.....(Mhtn) New York City  
College of the City of New York, A.B., 1899.  
*English Language and Literature, Comparative Literature.*
- DAVIS, ALICE.....(Mhtn) New York City  
University of Chicago, Ph.B., 1899.  
*American History.*
- DAVIS, EDWARD HATTON.....Boston, Mass.  
Massachusetts Institute of Technology, B.S., 1900.  
*Political Economy and Finance, Sociology and Statistics, Roman Law and Comparative Jurisprudence.*
- DAVIS, MICHAEL MARKS, JR.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- §DEAN, PHILLIPS REDFIELD.....(Mhtn) New York City  
Harvard University, A.B., 1896.  
*Education.*
- DE BEAUMONT, VICTOR ERNEST.....(Mhtn) New York City  
Columbia University, A.B., 1901.  
*Latin Language and Literature, Greek, Romance Philology.*

† Also a candidate for the Master's Diploma, Teachers College.

§ Also a candidate for the Higher Diploma, Teachers College.

- DEDERER, PAULINE HAMILTON.....(Mhnt) New York City  
Columbia University, A.B., 1901.  
*Zoology, Botany.*
- †DEEM, MARY GOODRICH.....Sabina, O.  
Hillsboro College, M.C.L., 1886.  
*Education, English.*
- DEIMEL, RICHARD FRANCIS.....(Mhnt) New York City  
College of the City of New York, B.S., 1902.  
*Mechanics, Mathematics, Astronomy.*
- DE JARNETTE, MRS. GABRIEL HARRISON.....(Mhnt) New York City  
Wesleyan College, A.B., 1863.  
*American History.*
- DENBIGH, JOHN HALLIDAY.....(Mhnt) New York City  
Oxford University, (England), A.B., 1891; A.M., 1895.  
*Education.*
- DICKSON, CHARLES WILLIAM.....Kingston, Ont.  
Queens University, A.M., 1900.  
*Geology, Palæontology.*
- DIEHL, FRANK.....Holt, Mich.  
University of Michigan, Ph.B., 1900.  
*Psychology.*
- DILWORTH, JAMES FRANCIS.....Jersey City, N. J.  
Rutgers College, A.B., 1902.  
*European History, American History, Political Economy and Finance.*
- DIONNE, GUSTAVE ADOLPHE LEO.....(Mhnt) New York City  
Wooster University, A.B., 1893.  
Columbia University, A.M., 1901.  
*Romance Languages and Literatures.*
- DOANE, HOWARD FREEMAN.....Crete, Neb.  
Harvard College, A.B., 1878.  
*Greek Language and Literature, Latin, Greek Archaeology.*
- DOLGENAS, JACOB ABRAHAM.....(Mhnt) New York City  
College of the City of New York, A.B., 1902.  
*Semitic Languages and Literatures, Philosophy.*
- †DORCAS, HERBERT CLIFFORD.....Iowa City, Ia.  
State University of Iowa, Ph.B., 1895.  
*Education, Philosophy.*
- DROWNE, GEORGE LEONARD.....Providence, R. I.  
Brown University, Ph.B., 1893.  
*English Language and Literature, European History.*
- DRUCKER, AARON PHINEUS.....(Mhnt) New York City  
Columbia University, A.B., 1901.  
*Anthropology, Psychology, Ancient History.*
- DRYFOOS, WALTER SCOTT.....(Mhnt) New York City  
Columbia University, A.B., 1896.  
New York Law School, LL.B., 1899.  
*Germanic Languages and Literatures, English.*
- DUBLIN, LOUIS ISRAEL.....(Mhnt) New York City  
College of the City of New York, B.S., 1902.  
*Zoology, Physiology.*
- DUFOUR, ALICE.....(Mhnt) New York City  
Defiance College, Ph.B., 1899.  
*Botany, Geology.*
- DUNN, ALEXANDER.....(Mhnt) New York City  
Manitoba College, A.B., 1896.  
*Philosophy, Sociology and Statistics.*
- DUNNEY, JOSEPH ALOYSIUS.....Albany, N. Y.  
Manhattan College, A.B., 1902.  
*Semitic Languages and Literatures.*

† Also a candidate for the Master's Diploma, Teachers College.

- DUTCHER, EVA OLIVE.....(Bklyn) New York City  
Columbia University, A.B., 1902.  
*Philosophy, Sociology and Statistics, European History.*
- EATON, ALLEN BARBER.....(Mhtn) New York City  
Beloit College, Ph.B., 1899.  
Yale University, A.M., 1902.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- ELTING, MABEL.....New Paltz, N. Y.  
Columbia University, A.B., 1901.  
*English Language and Literature.*
- ELWELL, THEODORA.....(Bklyn) New York City  
Radcliffe College, A.B., 1894.  
*Sociology and Statistics.*
- ERON, JOSEPH ELI.....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*Germanic Languages and Literatures, Philosophy, Sociology and Statistics.*
- ERSKINE, JOHN.....(Mhtn) New York City  
Columbia University, A.B., 1900; A.M., 1901.  
*English Language and Literature, Italian Language and Literature.*
- †EVANS, LOLA MAY.....Washington, D. C.  
Columbia University, A.B., 1902.  
*English Language and Literature, Comparative Literature, Education.*
- †FAHS, SOPHIA LYON.....(Mhtn) New York City  
Wooster University, A.B., 1897.  
*Education.*
- FARRAR, PRESTON COOKE.....(Mhtn) New York City  
Washington and Jefferson College, A.B., 1891; A.M., 1894.  
*English Language and Literature, Education.*
- FAY, CHARLES RALPH.....(Mhtn) New York City  
Amherst College, A.B., 1890; A.M., 1896.  
*Political Economy and Finance.*
- FELD, MAX.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Germanic Languages and Literatures, English.*
- FIELD, FRANK EDSON.....Dover, Ill.  
Yale University, A.B., 1900.  
*Sociology and Statistics, Political Economy and Finance.*
- \*FILFUSS, NATHANIEL.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Education.*
- FINNIGAN, JAMES JOSEPH.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Romance Languages and Literatures.*
- FISHEL, LILLIAN HENRIETTA.....Babylon, L. I.  
Wellesley College, B.S., 1890.  
*Greek Archaeology.*
- FITCH, ALBERT PARKER.....East Derry, N. H.  
Harvard University, A.B., 1900.  
*Sociology and Statistics.*
- FLEMING, DANIEL JOHNSON.....Cleveland, O.  
Wooster University, B.S., 1898.  
*Mechanics, Physics, European History.*
- FLETCHER, N. PRISCILLA.....(Mhtn) New York City  
Columbia University, A.B., 1897.  
*English Language and Literature.*

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- FLUHRER, HELEN PULLMAN.....(Mhtn) New York City  
Radcliffe College, A.B., 1900.  
*Germanic Languages and Literatures.*
- FONTAINE, ANDRÉ CAMILLE.....(Mhtn) New York City  
Université de France, Bachelier ès Lettres, ès Philosophie, 1896.  
*Romance Languages and Literatures, English.*
- †FOSTER, FREDERICK JAMES.....(Mhtn) New York City  
College of the City of New York, B.S., 1891.  
*Education, Physics.*
- FOSTER, JAMES HENRY.....Verona, N. Y.  
Hamilton College, A.B., 1895; A.M., 1898.  
*Latin Language and Literature, Greek.*
- FOSTER, WALTER EUGENE.....(Br) New York City  
Williams College, A.B., 1899.  
*Latin Language and Literature.*
- FOWLER, SUSAN.....(Mhtn) New York City  
Bryn Mawr College, A.B., 1895.  
*Latin Language and Literature, Greek.*
- \*FOWLER, WILSON WARREN.....(R) New York City  
Rutgers College, B.S., 1897.  
Columbia University, A.M., 1898.  
*Philosophy.*
- FOWLES, GEORGE MILTON.....(Mhtn) New York City  
Mt. Union College, A.B., 1895.  
New York University, A.M., 1899.  
*Sociology and Statistics.*
- FOX, WILLIAM.....(Mhtn) New York City  
College of the City of New York, B.S., 1884.  
Stevens Institute, M.E., 1886.  
*Mechanics.*
- FRENCH, HELEN TOPPING.....(Bklyn) New York City  
Oberlin College, A.B., 1898.  
*English Language and Literature, Education.*
- FROST, MARY KENNEDY.....(Mhtn) New York City  
Knox College, A.B., 1901.  
*English Language and Literature, Comparative Literature, European History.*
- FUENTES, VENTURA.....(Mhtn) New York City  
College of the City of New York, A.B., 1889.  
Columbia University, M.D., 1892.  
*Romance Languages and Literatures.*
- \*FUERST, SIDNEY MARSDEN.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Education, English.*
- FUHLHAGE, LOUISE HERMINE.....St. Louis, Mo.  
Washington University, A.B., 1901.  
*Germanic Languages and Literatures, Romance Philology.*
- FUJIOKA, SHIRO.....(Bklyn) New York City  
*Political Economy and Finance.*
- GAGE, CHARLES BROWNELL.....(Mhtn) New York City  
Yale University, A.B., 1898.  
*Psychology.*
- \*GAMMON, EDWARD MONTAGUE.....Rome, Ga.  
University of Rome, A.B., 1895.  
Columbia University, A.M., 1902.  
*Education, Physiology.*
- GARVIN, JOSEPH LAUREL.....Cambridge City, Ind.  
Hiram College, A.B., 1900.  
*American History.*
- GILLESPIE, JAMES PACKARD.....(Mhtn) New York City  
*Sociology and Statistics, Philosophy.*

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- GILLIN, JOHN LEWIS..... Waterloo, Ia  
Upper Iowa University, Lit.B., 1894.  
Iowa College, A.B., 1893.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- GJEVRE, ANDERS H..... (Mhntn) New York City  
Lutheran College (Decorah, Ia.), A.B., 1878; A.M., 1895.  
*Semitic Languages and Literatures.*
- GLEYSTEEN, WILLIAM HENRY..... Alton, Ia  
University of Michigan, A.B., 1897.  
*Sociology and Statistics, Political Economy and Finance.*
- GODDARD, HAROLD CLARKE..... Worcester, Mass.  
Amherst College, A.B., 1900.  
*English Language and Literature, Philosophy.*
- GOLDRICH, LEON WOLF..... (Mhntn) New York City  
College of the City of New York, B.S., 1894.  
New York University, LL.B., 1897.  
*Education.*
- GOLDSMITH, THEODORA..... (Bklyn) New York City  
Adelphi College, A.B., 1901.  
*English Language and Literature.*
- GOMPH, CHARLES LEWIS..... Albany, N. Y.  
Amherst College, A.B., 1900.  
*Philosophy.*
- GOODALE, GRACE HARRIET..... Potsdam, N. Y.  
Columbia University, A.B., 1899.  
*Latin Language and Literature.*
- GOODELL, JOSEPH EDWARD..... (Mhntn) New York City  
Franklin and Marshall, A.B., 1894.  
*Chemistry, Mineralogy.*
- GOODSON, COLUMBUS POLK..... Austin, Tex.  
Trinity University, A.B., 1896.  
Cumberland University, B.D., 1900.  
*Sociology and Statistics, European History, Philosophy.*
- GOTTSCHALL, LOUIS..... (Mhntn) New York City  
Columbia University, B.S., 1898.  
*Mathematics.*
- †GOULD, JOHN WESLEY..... (Bklyn) New York City  
Columbia University, A.B., 1900.  
*Education, Psychology.*
- GRAHAM, EDWARD KIDDER..... Charlotte, N. C.  
University of North Carolina, Ph.B., 1898.  
*English Language and Literature, Education.*
- GRAY, CLIFFORD..... (Mhntn) New York City  
Columbia University, E.E., 1902.  
*Mechanics, Mathematics, Physics.*
- GRAY, JAMES..... (Bklyn) New York City  
Columbia University, A.B., 1901.  
*Political Economy and Finance, American History, Philosophy.*
- GREEN HOWARD CHARLES..... (Mhntn) New York City  
College of the City of New York, A.B., 1902.  
*American History, European History, Roman Law and Comparative Jurisprudence.*
- \*GREENE, FREDERICK LOWELL..... (Mhntn) New York City  
Massachusetts Agricultural College, B.S., 1894; A.M., 1899.  
*Education, American History.*
- †GROUT, LEON EVERETT..... Newfane, Vt.  
University of Vermont, B.S., 1902.  
*Education, Botany, Zoology.*

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† Also a candidate for the Master's Diploma, Teachers College.

- GRÜN, PAULA.....Hoboken, N. J.  
K. K. Lehrer-Bildungsanstalt, Vienna, 1895.  
Columbia University, A.M., 1902.  
*Iranian.*
- GUNNING, MARCELLA.....(Mhntn) New York City  
University of California, B.L., 1901.  
*Comparative Literature, English.*
- GUYER, CAROLINE CLARKSON.....Trenton, N. J.  
Smith College, A.B., 1881.  
*Education.*
- HAAS, GEORGE CHRISTIAN OTTO.....(Mhntn) New York City  
Columbia University, A.B., 1902.  
*Indo-Iranian Languages, German Language and Literature.*
- HACKEDORN, MARION.....Galion, O.  
Ohio Wesleyan University, B.L., 1898; A.B., 1901; A.M., 1901.  
*Germanic Languages and Literatures, French Language and Literature, English.*
- †HADLEY, SARAH LOUISE.....South Canterbury, Conn.  
Wellesley College, A.B., 1896.  
*American History, European History, Education.*
- HALL, ARTHUR CLEVELAND.....Orange, N. J.  
Trinity College, A.B., 1888; A.M., 1893.  
Columbia University, Ph.D., 1901.  
*Ancient History, Constitutional Law, Political Economy and Finance.*
- HALLIDAY, EDGAR.....(Bklyn) New York City  
Princeton University, A.B., 1898.  
Columbia University, A.M., 1902.  
*Latin Language and Literature, Greek.*
- †HALLIGAN, THOMAS COOPER.....(Mhntn) New York City  
College of the City of New York, B.S., 1890.  
New York University, LL.B., 1895.  
*Education, Psychology, English.*
- HAMILTON, JOSEPH GREGOIRE DE ROULHAC.....Hillsboro, N. C.  
University of the South, A.M., 1900.  
*American History, European History, Political Economy and Finance.*
- HAMMERSLOUGH, CARRIE.....(Mhntn) New York City  
Columbia University, A.B., 1896; A.M., 1897.  
*Italian Language and Literature.*
- HARDIN, MARY ELIZABETH.....Newark, N. J.  
Elmira College, A.B., 1892.  
New York University, A.M., 1900.  
*English Language and Literature.*
- HARPER, JOHN FERGUSON.....(Mhntn) New York City  
College of the City of New York, B.S., 1901.  
Columbia University, A.M., 1902.  
*American History, European History.*
- HARRISON, ANNA E.....Topeka, Kan.  
Kansas State University, A.B., 1902.  
*English Language and Literature, Comparative Literature, European History.*
- HARRISON, JOHN SMITH.....Orange, N. J.  
Columbia University, A.B., 1899; A.M., 1900.  
*Comparative Literature.*
- HARTMANN, HENRY GOTTLIEB.....(Q) New York City  
Polytechnic Institute, Brooklyn, A.B., 1900.  
*Philosophy, Psychology, Political Economy and Finance.*
- HARTMANN, JACOB.....(Mhntn) New York City  
College of the City of New York, B.S., 1901.  
*Germanic Languages and Literatures, English.*
- HARWOOD, MARY EMMA.....Rutland, Vt.  
Smith College, A.B., 1893.  
*Latin Language and Literature, Education.*

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- HATHAWAY, BISHOP.....Stanberry, Mo.  
University of Missouri, A.B., 1902.  
*Political Economy and Finance, Sociology and Statistics, Administrative Law*
- HATTON, JOHN GOODRICH.....(Mhtn) New York City  
Cooper Union, B.S., 1892.  
Nashotah Theological Seminary, B.D., 1902.  
*Mathematics.*
- HAUERBACH, OTTO ABEL.....Walla Walla, Wash.  
Knox College, A.B., 1895; A.M., 1898.  
*English Language and Literature, European History.*
- HAWORTH, PAUL LELAND.....West Newton, Ind.  
Indiana University, A.B., 1899; A.M., 1901.  
*English History, European History, Administrative Law.*
- HAYNES, ROWLAND.....Ayer, Mass.  
Williams College, A.B., 1902.  
*Philosophy.*
- HAZZARD, HOWARD BURTON.....Cleveland, O.  
Hiram College, B.L., 1900.  
*Political Economy and Finance, Sociology and Statistics, Administrative Law.*
- HECHT, FELIX.....(Q) New York City  
College of the City of New York, B.S., 1900.  
Columbia University, A.M., 1902.  
*English Language and Literature.*
- HELLMUTH, LOUISE.....Berkeley, Cal.  
University of California, Ph.B., 1898; M.L., 1899.  
*Comparative Literature, German Language and Literature.*
- HEMPSTEAD, LOUISE.....Meadville, Pa.  
Cornell University, Ph.B., 1900.  
*European History, American History, Political Philosophy, Education.*
- HENRY, FLORENCE FRENCH.....Cortland, N. Y.  
Cornell University, A.B., 1901.  
Columbia University, A.M., 1902.  
*Palæontology, Geology, Zoology.*
- †HENSON, CLARENCE CHERRINGTON.....Clay, O.  
Ohio University, A.B., 1899; A.M., 1901.  
*Education, Psychology, Sociology and Statistics.*
- HERBERT, LE ROY BEDFORD.....(Mhtn) New York City  
College of the City of New York, A.B., 1898.  
*American History, Administrative Law.*
- HERNSHEIM, CHARLES.....(Mhtn) New York City  
Harvard University, A.B., 1898; A.M., 1900.  
*Philosophy, Psychology, Political Economy and Finance, Sociology and Statistics.*
- HEWITT, MARGARET LOUISE.....Newark, N. J.  
Wellesley College, A.B., 1897.  
*English.*
- HINCKLEY, FRANK ERASTUS.....Oakland, Cal.  
Beloit College, A.B., 1892; A.M., 1897.  
*International Law.*
- HISHIDA, SEIJI.....(Mhtn) New York City  
New York University, A.M., 1900.  
*International Law.*
- HIXSON, MARTHA B.....Wessington, So. Dak.  
Ohio Wesleyan University, B.S., 1902; A.M., 1902.  
*Sociology and Statistics.*
- HOADLEY, HARWOOD.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Greek Language and Literature.*
- HOCK, CHARLES THEODORE.....Bloomfield, N. J.  
New York University, Ph.D., 1902.  
*Semitic Languages and Literatures.*

† Also a candidate for the Master's Diploma, Teachers College.

- HOFFMANN, HUGO WILLIAM.....(Bklyn) New York City  
New York University, A.M., 1897; Ph.D., 1900.  
*Semitic Languages and Literatures.*
- HOOD, EDWARD CLARK..... Newton, Mass.  
Amherst College, A.B., 1897.  
*Zoology, Botany.*
- †HOPKINS, NELLIE LOUISE.....Oxford, N. Y.  
Cornell University, A.B., 1899.  
*Latin Language and Literature, Education.*
- HOUSE, HOMER DOLIVER.....Oneida, N. Y.  
Syracuse University, B.S., 1902.  
*Botany, Physiological Chemistry.*
- HOUSTON, VIRGINIA MILLER.....Bellvale, N. Y.  
Ohio University, A.B., 1899.  
*English Language and Literature.*
- HOWARD, CHARLOTTE B.....Ogdensburg, N. Y.  
University of Cincinnati, A.B., 1884.  
*Latin Language and Literature.*
- HOWARD, KATHARINE DOBBINS.....Hazlehurst, Miss.  
Central College, A.B., 1901.  
*Comparative Literature, English.*
- HUBBARD, GUY ANDREW STEPHEN BAILEY.....(R) New York City  
Trinity College (Hartford), A.B., 1894.  
*Education.*
- HUGHES, GEORGE EDWARD.....Logansport, Ind.  
Wabash College, A.B., 1900.  
*Philosophy.*
- HUGHES, PERCY.....(Bklyn) New York City  
Alfred University, A.B., 1899.  
Columbia University, A.M., 1902.  
*Philosophy, Psychology, Education.*
- HUMMEL, GEORGE FREDERICK.....Southold, N. Y.  
Williams College, A.B., 1902.  
*English Language and Literature, German Language and Literature.*
- HUNTER, FOREST PRESTON.....Kenmore, N. Y.  
Colgate University, A.B., 1901.  
*Sociology and Statistics.*
- HUNTINGTON, SUSAN DICKINSON.....Norwich, Conn.  
Wellesley College, A.B., 1900.  
*Education, Psychology.*
- HURLBURT, MARY FRELINGHUYSEN.....(Mhtn) New York City  
Wellesley College, B.S., 1887; A.M., 1893.  
*Physics.*
- HURLBURT, STEPHEN AUGUSTUS.....Athens, N. Y.  
University of Wisconsin, A.B., 1901; A.M., 1902.  
*Greek Language and Literature, Latin, Greek Archaeology.*
- HUSSAKOF, LOUIS.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Zoology.*
- HYDE, HENRY ST. JOHN.....(Mhtn) New York City  
Columbia University, Ph.B., 1896; A.M., 1898.  
*Chemistry.*
- ISHIKAWA, YOSHIMASA.....Matsukusiwa, Japan  
Tetsu Gakkwan, Tokyo (equiv. A.B.), 1898.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- JACKSON, KATHERINE.....London, Ky.  
Ohio Wesleyan University, A.B., 1898; A.M., 1900.  
*English Language and Literature, Comparative Literature.*

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- §JAMESON, CHARLES BARING.....(Mhnt) New York City  
College of the City of New York, A.B., 1896.  
*Education, English.*
- †JARVIE, MARGARET SCOTT.....(Bklyn) New York City  
Cornell University, A.B., 1902.  
*Education, European History.*
- §JENKS, ELIJAH, JR.....(Br) New York City  
College of the City of New York, B.S., 1889.  
*Education, English.*
- JOHNSON, ADELE REMSEN.....(Bklyn) New York City  
Columbia University, A.B., 1901.  
*English Language and Literature.*
- JOHNSON, DOUGLAS WILSON.....Albuquerque, N. M.  
University of New Mexico, B.S., 1901.  
*Geology, Palæontology, Mineralogy.*
- JOHNSON, EMILY STRONG.....Pittston, Pa.  
Wellesley College, A.B., 1897.  
*Latin Language and Literature.*
- JOHNSON, HARRY THEODORE.....Dakota, Neb.  
University of Nebraska, A.B., 1901.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- JONES, WALTER CUTLER.....Youngstown, O.  
Western Reserve University, A.B., 1901.  
*Philosophy.*
- JONES, WILLIAM.....Sauk and Fox Agency, Okla.  
Harvard University, A.B., 1900.  
Columbia University, A.M., 1901.  
*Anthropology, Psychology, Linguistics.*
- JOSEPHthal, HILDA EMILY.....(Mhnt) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Comparative Literature.*
- KANOLT, CLARENCE WHITNEY.....(Mhnt) New York City  
Columbia University, B.S., 1902.  
*Chemistry, Mathematics, Mechanics.*
- KAPLAN, MORDECAI MENAHEM.....(Mhnt) New York City  
College of the City of New York, A.B., 1900.  
Columbia University, A.M., 1902.  
*Philosophy.*
- KASUGAI, JOTARO.....(Mhnt) New York City  
Higher Commercial College, Japan (equiv. A.B.), 1898.  
*Political Economy and Finance.*
- KEEP, AUSTIN BAXTER.....(Mhnt) New York City  
Amherst College, A.B., 1897; A.M., 1901.  
*American History, European History, Political Economy and Finance.*
- KELLEY, HELEN ESTHER.....East Orange, N. J.  
Smith College, B.L., 1902.  
*Sociology and Statistics, Comparative Literature.*
- KELLOGG, PAUL UNDERWOOD.....Kalamazoo, Mich.  
*Sociology and Statistics.*
- KENNEDY, MARY STEWART.....(Mhnt) New York City  
Adelphi College, A.B., 1901.  
Columbia University, A.M., 1902.  
*Comparative Literature.*
- KENT, ERNEST BECKWITH.....(Mhnt) New York City  
Iowa College, A.B., 1894.  
Columbia University, A.M., 1901.  
*Education.*

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- KIND, JOHN LOUIS.....Crete, Neb.  
University of Nebraska, A.B., 1899; A.M., 1901.  
*Germanic Languages and Literatures, English.*
- \*KING, ALBERT E.....(Bklyn) New York City  
Harvard University, A.B., 1897; A.M., 1898.  
*Mechanics.*
- KINGSBURY, SUSAN MYRA.....San Francisco, Cal.  
University of the Pacific, A.B., 1890.  
Leland Stanford, Jr., University, A.M., 1899.  
*American History.*
- KINGSLEY, CLARENCE DARWIN.....Syracuse, N. Y.  
Colgate University, B.S., 1897.  
*Sociology and Statistics, Political Economy and Finance, Education.*
- KIRK, WILLIAM ELWOOD.....University Place, Neb.  
University of Nebraska, A.B., 1895; A.M., 1897.  
*Latin Language and Literature, Greek, Sanskrit.*
- KLEIN, DAVID.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Gothic.*
- KNIEP, ARTHUR.....(Mhtn) New York City  
Gymnasium, Königsberg (equiv. A.B.), 1884.  
*Geography.*
- †KNIGHT, ARCHIBALD S.....Hamilton, N. Y.  
Colgate University, A.B., 1892; A.M., 1895.  
*Education, Greek, Psychology.*
- KNOX, THOMAS HARDY.....(Mhtn) New York City  
College of the City of New York, B.S., 1888.  
*English.*
- KOTTMAN, WILLIAM ADOLPH.....(Mhtn) New York City  
College of the City of New York, B.S., 1886.  
Columbia University, LL.B., 1889.  
New York University, Pd.M., 1902.  
*Sociology and Statistics, International Law, Administrative Law.*
- KOVARSKY, ABRAHAM.....(Mhtn) New York City  
College of the City of New York, B.S., 1901.  
*English Language and Literature, Comparative Literature, Philosophy.*
- KRANS, HORATIO SHEAFE.....(Mhtn) New York City  
Columbia University, A.B., 1894; A.M., 1897.  
*Comparative Literature.*
- §LANE, CHRISTOPHER J.....Pearl River, N. Y.  
St. Francis Xavier, A.B., 1891.  
*Education.*
- LANG, DAVID.....Winnipeg, Can.  
Manitoba University, A.B., 1897; A.M., 1900.  
*Philosophy, Sociology and Statistics, European History.*
- LANGDON, STEPHEN HERBERT.....(Mhtn) New York City  
University of Michigan, A.M., 1899.  
*Semitic Languages and Literatures.*
- LARKIN, MICHAEL JOSEPH.....Dunwoodie, N. Y.  
St. John's College, A.B., 1900.  
*Philosophy, Political Economy and Finance.*
- †LAUDER, MARY AGNES.....(Bklyn) New York City  
Vassar College, A.B., 1901.  
*English Language and Literature, Education.*
- LAUGHLIN, HUGH CLARENCE.....(Mhtn) New York City  
Ohio State University, A.B., 1890.  
University of Nebraska, A.M., 1895.  
*English Language and Literature.*

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- LAWTON, GRACE E. .... Newport, R. I.  
Bryn Mawr College, A.B., 1898.  
*Latin Language and Literature.*
- LAWYER, FRANK DAVID. .... Mineral Springs, N. Y.  
Syracuse University, A.B., 1902.  
*Psychology*
- LAWYER, LOUIS ROSSSELL. .... (Mhnt) New York City  
College of the City of New York, B.S., 1896.  
*Education, English.*
- LEAVENWORTH, GEORGE. .... Ste. Genevieve, Mo.  
Missouri University, A.B., 1902.  
*Geology, Zoology, Botany.*
- LEDoux, LOUIS VERNON. .... (Mhnt) New York City  
Columbia University, A.B., 1902.  
*Palæontology, Geology, Metallurgy.*
- LEE, THEODORE STONE. .... Springfield, Mass.  
Amherst College, A.B., 1900.  
*Sociology and Statistics.*
- LEHMAN, EUGENE HEITLER. .... Pueblo, Colo.  
Yale University, A.B., 1902.  
*Semitic Languages and Literatures, Philosophy, Political Philosophy.*
- LEONARD, WILLIAM ELLERY CHANNING. .... (Mhnt) New York City  
Boston University, A.B., 1898.  
Harvard University, A.M., 1899.  
*English Language and Literature, German Language and Literature.*
- LEVITT, EZEKIEL. .... (Mhnt) New York City  
Odessa Gymnasium (equiv. A.B.), 1898.  
*Semitic Languages and Literatures, German Language and Literature.*
- LEWIS, ALBERT BUELL. .... Santa Ana, Cal.  
University of Chicago, A.B., 1894.  
*Anthropology, Psychology.*
- LEWIS, ALFRED HOMES. .... Greenwich, Conn.  
Columbia University, A.B., 1902.  
*Political Economy and Finance, Sociology and Statistics, Education.*
- LEWISOHN, LUDWIG. .... Charleston, S. C.  
College of Charleston, A.B., 1901; A.M., 1901.  
*English Language and Literature, German Language and Literature.*
- LICHTENWALTER, E. GENEVE. .... (Mhnt) New York City  
University of Kansas, A.B., 1899.  
*Comparative Literature.*
- LOCH, JACOB WILLIAM. .... (Bklyn) New York City  
New York University, A.B., 1897; A.M., 1898; Ph.D., 1900.  
*Semitic Languages and Literatures.*
- LOCKWOOD, SAMUEL PIERSON. .... Yonkers, N. Y.  
Columbia University, A.B., 1902.  
*English Language and Literature, French Language and Literature, Music.*
- †LONGACRE, GEORGE FORCE. .... Yerkess, Pa.  
Ursinus College, A.B., 1896.  
*Education, American History.*
- LONSDALE, WILLIAM JAMES. .... Syracuse, N. Y.  
Hamilton College, A.B., 1901.  
*Sociology and Statistics.*
- LOOMIS, LOUISE ROPES. .... (Mhnt) New York City  
Wellesley College, A.B., 1897.  
Columbia University, A.M., 1902.  
*European History, American History, Greek.*
- LOSHE, LILLIE DEMING. .... Stamford, Conn.  
Bryn Mawr College, A.B., 1899.  
*English Language and Literature, European History*

† Also a candidate for the Master's Diploma, Teachers College.

- LUDWIG, AUGUSTUS.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*Education.*
- LULL, RICHARD SWANN.....Amherst, Mass.  
Rutgers College, B.S., 1893; M.S., 1896.  
*Palæontology, Zoology, Geology.*
- LYONS, ALEXANDER.....(Bklyn) New York City  
University of Cincinnati, B.L., 1891.  
*Sociology and Statistics, Political Economy and Finance.*
- MCCOOK, JANET ALEXANDER.....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*Philosophy, Education, Sociology and Statistics.*
- McGEE, JOHN D'ARCY.....(Br) New York City  
Laval University, B.L., 1890.  
*Latin.*
- McNEELY, ELIZABETH.....Carleton Place, Ontario, Can.  
University of Toronto, A.B., 1896.  
*European History.*
- McQUADE, BERNARD FRANCIS.....Dunwoodie, N. Y.  
St. Charles College, Md., A.B., 1902.  
*Philosophy, Political Economy and Finance.*
- McVAY, WILLIAM.....(Mhtn) New York City  
*Chinese Language and Literature.*
- MACALARNEY, EMMA LENORE.....(Mhtn) New York City  
Wellesley College, A.B., 1892.  
*English Language and Literature.*
- MACKINTOSH, PETER DUNCAN.....St. George's Channel, N. S., Can.  
Dalhousie University, A.B., 1900; A.M., 1901.  
*Sociology and Statistics, European History.*
- MACURDY, GRACE HARRIET.....Poughkeepsie, N. Y.  
Radcliffe College, A.B., 1888.  
*Greek Language and Literature, Greek Archaeology.*
- MACVAY, ANNA PEARL.....Athens, O.  
Ohio University, A.B., 1892.  
*Greek Language and Literature.*
- MAGEWORTH, JULIUS OTIS.....(Br) New York City  
College of the City of New York, A.B., 1898.  
*English Language and Literature.*
- MAIN, CHARLES OGG.....Rexton, N. B., Can.  
Dalhousie University, A.B., 1901.  
*Sociology and Statistics, European History.*
- MANGANO, ANTONIO.....(Mhtn) New York City  
Brown University, A.B., 1899.  
*Sociology and Statistics, Political Economy and Finance.*
- MARGOLIES, SAMUEL.....Boston, Mass.  
Harvard University, A.B., 1902.  
*Semitic Languages and Literatures, Philosophy*
- MARKSON, HARRY MOSES.....(Mhtn) New York City  
Cornell University, Ph.B., 1898.  
Columbia University, A.M., 1900.  
*Germanic Languages and Literatures, French Language and Literature.*
- MARSCHING, JOHN HAROLD.....(Mhtn) New York City  
Columbia University, A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- MARSH, HOWARD DANIEL.....Los Angeles, Cal.  
Ohio Wesleyan University, A.B., 1901; A.M., 1902.  
*Psychology, Anthropology, Sociology and Statistics.*
- MARTIN, JOHN EDWARD.....Paterson, N. J.  
*Sociology and Statistics.*

- MARTIN, LOUIS ADOLPHE, JR. .... Hoboken, N. J.  
Stevens Institute, Mech. E., 1900.  
*Mechanics, Mathematics, Physics.*
- MASON, WILLIAM THOMAS. .... (Mhtn) New York City  
Columbia University, A.B., 1895; A.M., 1896; LL.B., 1897.  
*Administrative Law.*
- MASSE, WILLIE WATSON. .... River Falls, Wis.  
University of Minnesota, Litt.B., 1901.  
*English Language and Literature, Philosophy.*
- MASUDA, YEIICHI. .... Tokyo, Japan  
Tokyo Semmon Gakko (equiv. A.B.), 1900.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- MATTHEWS, ARCHIBALD J. .... Hannawa Falls, N. Y.  
Dartmouth College, A.B., 1894; A.M., 1897.  
*English Language and Literature.*
- MEAD, BELLE L. .... Greenwich, Conn.  
Mt. Holyoke College, A.B., 1900.  
*Sociology and Statistics, Political Economy and Finance.*
- MEAD, NELSON PRENTISS. .... (Mhtn) New York City  
College of the City of New York, B.S., 1899.  
*Constitutional Law, International Law, American History.*
- MEEKER, ROYAL. .... (Mhtn) New York City  
Iowa State College, B.S., 1898.  
*Political Economy and Finance, Sociology and Statistics.*
- MERRITT, MARY SCHORY. .... Lancaster, O.  
Ohio Wesleyan University, A.B., 1901.  
*English Language and Literature, French Language and Literature.*
- METZENTHIN, WALDEMAR ERICH. .... Steelton, Pa.  
Franklin and Marshall College, A.B., 1899.  
*Germanic Languages and Literatures.*
- MEYER, MARTIN ABRAHAM. .... Albany, N. Y.  
University of Cincinnati, A.B., 1899.  
Hebrew Union College, B.D., 1901.  
*Semitic Languages and Literatures, Anthropology.*
- MICHAEL, GEORGE WASHINGTON. .... (Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*English Language and Literature.*
- MILLER, ALVENIA BARNETTE. .... Waverley, Columbia, S. C.  
*English Language and Literature, Comparative Literature.*
- MILLER, MAUD ELSA. .... Edgerton, Wis.  
University of Wisconsin, A.B., 1899.  
*Latin Language and Literature, Education.*
- MINER, JAMES BURT. .... Berlin, Wis.  
University of Minnesota, B.S., 1897; LL.B., 1899; M.S., 1901.  
*Psychology, Anthropology.*
- MISCHLICH, ADOLPH. .... (Mhtn) New York City  
College of the City of New York, B.S., 1879.  
*English Language and Literature, Education.*
- MOFFIT, FRED HOWARD. .... Princeville, Ill.  
Williams College, A.B., 1895.  
Lafayette College, A.M., 1899.  
*Geology, Mining, Palæontology.*
- MONOD, ALFRED FRANÇOIS. .... Paris, France  
Ecole normale supérieure (equiv. A.M.), 1898.
- MONTGOMERY, WILLIAM HENRY. .... Solina, Ontario, Can.  
Union Theological Seminary, B.D., 1902.  
*Sociology and Statistics, Political Economy and Finance.*
- MOON, ALPHEUS W. .... Hardingville, N. J.  
Indiana University, A.B., 1895.  
*Education, Psychology.*

- MOORE, HENRIETTA EVANGELINE.....Portland, Ore.  
University of Oregon, A.B., 1888.  
University of California, M.L., 1896.  
Columbia University, A.M., 1902.  
*Comparative Literature, English.*
- MORBA, KARL PHILIP.....Hartford, Conn.  
Trinity College (Hartford), A.B., 1902.  
*Germanic Languages and Literatures.*
- MORLAN, ERNEST EARL.....Garden City, Mo.  
Missouri State University, A.B., 1902.  
*Physical Chemistry, Mathematics, Mechanics.*
- MOSES, JOSEPH.....(Mhntn) New York City  
University of Cincinnati, A.B., 1894.  
*Education, German Language and Literature.*
- MOSKOWITZ, HENRY.....(Mhntn) New York City  
College of the City of New York, A.B., 1899.  
*Philosophy, Political Economy and Finance, European History, English.*
- MUSSEY, HENRY RAYMOND.....Atkinson, Ill.  
Beloit College, A.B., 1900.  
*Political Economy and Finance, Sociology and Statistics, European History.*
- MUZZEY, DAVID SAVILLE.....(Mhntn) New York City  
Harvard University, A.B., 1893.  
Union Theological Seminary, B.D., 1897.  
*European History, American History, Latin.*
- NAMMACK, ELIZABETH FRANCES.....(Mhntn) New York City  
Columbia University, A.B., 1895; A.M., 1896.  
*Latin Language and Literature, Greek.*
- NATHAN, MARVIN.....Buffalo, N. Y.  
Cornell University, A.B., 1900.  
*Philosophy, Education, Sociology and Statistics.*
- NATSCH, HENRY.....(Bklyn) New York City  
Brown University, A.B., 1902.  
*Sociology and Statistics.*
- NAUMBURG, ALICE.....(Mhntn) New York City  
Columbia University, A.B., 1902.  
*Comparative Literature.*
- NEISH, ARTHUR COLON.....Kingston, Ont.  
Queen's University, A.B., 1898.  
Columbia University, A.M., 1900.  
*Chemistry, Metallurgy.*
- NELSON, ALLEN HENRY.....West Salisbury, Vt.  
Middlebury College, A.B., 1901.  
*Physics, Mechanics, Electrical Engineering.*
- NELSON, LEON MAURICE.....(Bklyn) New York City  
University of Cincinnati, A.B., 1898.  
*Philosophy.*
- NEWMAN, JESSE FORD.....(Bklyn) New York City  
Lawrence University, A.M., 1898.  
*Chinese Language and Literature, International Law.*
- O'BRIEN, HARRY ALDEN.....Galesburg, Ill.  
Knox College, A.B., 1901.  
*Constitutional Law, American History.*
- †O'DONNELL, JAMES A.....(Mhntn) New York City  
College of the City of New York, B.S., 1886.  
*Education.*
- OGILVIE, IDA HELEN.....(Mhntn) New York City  
Bryn Mawr College, A.B., 1900.  
*Geology.*

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- OLSEN, ROBERT BRENTON.....Walla Walla, Wash.  
Whitman College, A.B., 1900.  
Columbia University, A.M., 1901.  
*Political Economy and Finance, Sociology and Statistics.*
- O'REILLY, JAMES J.....Dunwoodie, N. Y.  
Manhattan College, A.B., 1900.  
*Philosophy, Political Economy and Finance.*
- ORTH, SAMUEL PETER.....Akron, O.  
Oberlin College, B.S., 1896.  
*Administrative Law, Constitutional Law, American History.*
- OSBORNE, EVELYN.....(Mhnt) New York City  
Columbia University, A.B., 1900; A.M., 1901.  
*Romance Languages and Literatures, English.*
- OSBURN, RAYMOND CARROLL.....Columbus, O.  
Ohio State University, B.S., 1898; M.S., 1900.  
*Zoology, Paleontology, Physiology.*
- OSTRANDER, FREDERICK CURRY.....Cornwall, N. Y.  
Wesleyan University, A.B., 1893.  
*Romance Philology, French Language and Literature, German Language and Literature.*
- PAGE, RALPH BARLOW.....Toronto Junction, Can.  
Toronto University, A.B., 1897; A.M., 1901.  
*European History, American History, Political Economy and Finance.*
- †PALEY, HERMAN E.....(Mhnt) New York City  
College of the City of New York, A.B., 1902.  
*Education, English.*
- PARK, STERLING.....Norman, Okla.  
Trinity University (Texas), A.B., 1895.  
Cumberland University, B.D., 1898.  
*Sociology and Statistics, European History, Philosophy.*
- †PARKER, SAMUEL CHESTER.....Cincinnati, O.  
University of Cincinnati, A.B., 1901.  
*Education, Psychology.*
- §PATRI, ANGELO.....(Mhnt) New York City  
College of the City of New York, A.B., 1897.  
*Education, English.*
- PATTERSON, DAVID LESLIE, JR.....(Mhnt) New York City  
Pennsylvania State College, B.S., 1895.  
*European History, American History, International Law.*
- †PAYNE, BRUCE RYBURN.....Durham, N. C.  
Trinity College (N. C.), A.B., 1896; A.M., 1902.  
*Education, Philosophy.*
- PECORINI, ALBERT.....(Mhnt) New York City  
Gimnasium, Venice (equiv. A.B.) 1896.  
Lyceum, Rome (equiv. A.M.), 1900.  
*Philosophy, French Language and Literature, Hebrew.*
- PEET, THEODORE.....(Mhnt) New York City  
Yale University, A.B., 1877.  
*Germanic Languages and Literatures, French Language and Literature.*
- PERKIN, SAMUEL.....(Mhnt) New York City  
New York University, M.D., 1898.  
*Political Economy and Finance, Sociology and Statistics, Philosophy.*
- PERRIN, ERNEST NOËL.....(Mhnt) New York City  
Harvard University, A.B., 1882.  
Columbia University, LL.B., 1885.  
*Romance Languages and Literatures.*
- †PETTEE, ALVENA.....Durham, N. H.  
New Hampshire College, B.S., 1896.  
*Education.*

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‡ Also a candidate for the Bachelor's Diploma, Teachers College.

§ Also a candidate for the Higher Diploma, Teachers College.

- PHILP, MARY ISABEL..... Chateaugay, N. Y.  
Syracuse University, Ph.B., 1901.  
*English Language and Literature.*
- PICKHARDT, ERNEST WILLIAM SUTTON.....(Mhnt) New York City  
Harvard University, A.B., 1898.  
New York Law School, LL.B., 1900.  
Columbia University, A.M., 1902.  
*Greek Language and Literature, Latin, Greek Archaeology.*
- POMERENE, JENNIE.....Poughkeepsie, N. Y.  
Vassar College, A.B., 1886.  
*Ancient History.*
- POOLE, ERNEST COOK.....(Mhnt) New York City  
Princeton University, A.B., 1902.  
*English Language and Literature.*
- POTTER, JAMES M.....Madison, N. J.  
*Sociology and Statistics.*
- †POTTER, JEFFERSON ROWLAND.....Paterson, N. J.  
Brown University, A.B., 1877; A.M., 1888.  
*Education.*
- PRITCHARD, ARTHUR OSBORN.....Newport, R. I.  
Brown University, Ph.B., 1900.  
*Political Economy and Finance, Sociology and Statistics.*
- §PUGLIESE, ANTHONY JULIAN.....(Mhnt) New York City  
College of the City of New York, A.B., 1897.  
*Education, English.*
- PULLICH, OTTO.....(Mhnt) New York City  
Columbia University, A.B., 1902.  
*Chemistry, Mineralogy.*
- PUTNAM, BERTHA HAVEN.....(Mhnt) New York City  
Bryn Mawr College, A.B., 1893.  
*Sociology and Statistics, European History.*
- QUACKENBOS, GEORGE PAYN.....(Mhnt) New York City  
Columbia University, A.B., 1900; A.M., 1901.  
*Latin Language and Literature, Greek, Sanskrit.*
- QUIMBY, ERNEST SCOTT.....(Mhnt) New York City  
Wesleyan University, A.B., 1896.  
*English Language and Literature.*
- RADIN, PAUL.....(Mhnt) New York City  
College of the City of New York, A.B., 1902.  
*Zoology, Physiology.*
- RAMSEY, HORACE MARION.....La Grande, Ore.  
Pacific University, A.B., 1899.  
University of California, A.M., 1902.  
*Semitic Languages and Literatures, Greek.*
- RAY, MABEL.....Waynesburg, Pa.  
Waynesburg College, A.B., 1902.  
*Latin Language and Literature, Education, English.*
- REA, PAUL MARSHALL.....Williamstown, Mass.  
Williams College, A.B., 1899; A.M., 1901.  
*Zoology, Botany, Physiology.*
- REED, EMMA LOUISA.....(Mhnt) New York City  
Wesleyan University, Ph.B., 1899.  
Columbia University, A.M., 1900.  
*English Language and Literature.*
- REED, JOHN HOMER.....Minneapolis, Minn.  
University of Minnesota, A.B., 1902.  
*American History, European History, Political Economy and Finance.*

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- REY, OTTO HENRY.....(Bklyn) New York City  
German Wallace College, Berea, O., A.B., 1901  
*Psychology, Philosophy, Anthropology.*
- REYNOLDS, FRANK ABRAM.....Austin, Minn.  
Northwestern University, A.B., 1891; LL.B., 1893.  
Harvard University, A.M., 1900.  
*Latin Language and Literature.*
- \*REYNOLDS, JAMES JOSEPH.....(Mhtn) New York City  
College of the City of New York, B.S., 1893.  
New York University, LL.B., 1897.  
Columbia University, A.M., 1902.  
*English.*
- RICHARDS, EDNA H.....Salem, O.  
Swarthmore College, B.L., 1898.  
*Germanic Languages and Literatures, English.*
- †RICHARDSON, BERTHA JUNE.....Cleveland, O.  
Smith College, A.B., 1901.  
*Education.*
- †RICHARDSON, JULIA ELVIRA.....Elgin, Minn.  
Northwestern University, B.S., 1899.  
*Education, English.*
- ROBINSON, WILLIAM WELLINGTON.....Madison, N. J.  
Syracuse University, A.B., 1902.  
*Psychology.*
- RODERICK, STELLA VIRGINIA.....Galion, O.  
Ohio Wesleyan University, A.B., 1901; A.M., 1902.  
*English Language and Literature, Comparative Literature.*
- †ROOP, MARCUS J.....Ridgefield, N. J.  
Heidelberg College (O.), A.B., 1893.  
New Brunswick Theological Seminary, B.D., 1896.  
*Education, English.*
- ROYCE, SARAH GRACE.....Brownsville, Vt.  
Smith College, A.B., 1890.  
Columbia University, A.M., 1902.  
*Greek Language and Literature, Latin.*
- RUBINOW, ISAAC MAX.....(Mhtn) New York City  
Columbia University, A.B., 1895.  
New York University, M.D., 1898.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- SALTER, GEORGE FERRY.....East Orange, N. J.  
College of the City of New York, B.S., 1888; M.S., 1893.  
*Philosophy, Psychology.*
- SAWYER, OLIVER HENRY.....Montclair, N. J.  
*American History.*
- SAXE, BERNHARD DAVID.....(Bklyn) New York City  
College of the City of New York, B.S., 1899.  
*Philosophy, Education, Psychology.*
- SCHARPF, VIOLETTE EUGÉNIE.....Lausanne, Switzerland  
Adelphi College, A.B., 1900.  
*Romance Languages and Literatures, Romance Philology.*
- SCHLOSBERG, SAMUEL.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*English Language and Literature.*
- ‡SCHUMAKER, MARY VIOLA.....Neale, Pa.  
National Normal University, A.B., 1900.  
*Education, English.*

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- SCHUYLER, LIVINGSTON ROWE.....Scarsdale, N. Y.  
College of the City of New York, A.B., 1889; A.M., 1893.  
General Theological Seminary, B.D., 1895.  
*American History, European History.*
- SCOTT, CORA ARNOT.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Physics.*
- SCOTT, GEORGE GILMORE.....(Mhtn) New York City  
Williams College, A.B., 1898; A.M., 1899.  
*Zoology.*
- †SECRET, STELLA WARREN.....Chillicothe, O.  
Ohio Wesleyan University, A.B., 1893.  
*Education, English, Mathematics.*
- SELDEN, GEORGE CHARLES.....Northwood Ridge, N. H.  
Dartmouth College, A.B., 1893.  
Lake Forest University, LL.B., 1895.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- SELIGSBERG, ALICE LILLIE.....(Mhtn) New York City  
Columbia University, A.B., 1895.  
*Political Economy and Finance.*
- SEYMOUR, ARTHUR TRUMBULL.....Orange, N. J.  
Cornell University, B.L., 1892.  
*Physics.*
- SEWARD, ANNIE LEDDELE.....East Orange, N. J.  
Columbia University, A.B., 1902.  
*Sociology and Statistics, Political Economy and Finance, Education.*
- SHAW, CHARLES FRANKLIN.....Philadelphia, Pa.  
Harvard University, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- SHAW, IRA DENNISON.....East Orange, N. J.  
Oberlin College, A.B., 1898.  
*Education.*
- SHEARER, ELIZABETH EICHELBERGER.....(Mhtn) New York City  
Mt. Holyoke College, A.B., 1896.  
*Latin Language and Literature, Roman Archæology, Greek Archæology.*
- SHEEHAN, JOSEPH MATTHEW.....(Bklyn) New York City  
St. John's College, A.B., 1892.  
*English Language and Literature.*
- SHEPPARD, JAMES J.....(Mhtn) New York City  
Harvard University, A.B., 1894.  
*Sociology and Statistics, Education.*
- SHERIDAN, JAMES WALTER.....(Br) New York City  
College of the City of New York, B.S., 1899.  
*English Language and Literature, International Law.*
- SHRIVER, WILLIAM PAYNE.....Baltimore, Md.  
Johns Hopkins University, A.B., 1901.  
*Sociology and Statistics, European History.*
- SIBLEY, ROBERT PELTON.....Westfield, Mass.  
Amherst College, A.B., 1900.  
*English Language and Literature, Philosophy.*
- SIMPSON, EDNA BELL.....Beaver Falls, Pa.  
Geneva College, A.B., 1899.  
Columbia University, A.B., 1900; A.M., 1902.  
*Comparative Literature.*
- †SLAVIK, WILLIAM CLARENCE.....(Mhtn) New York City  
College of the City of New York, B.S., 1898.  
*Education, English.*

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- SMALL, HERBERT FEDOR.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Comparative Literature, English.*
- SMETANKA, JAROSLAV.....Nemecke, Moravia  
Gymnasium of Kolin (equiv. A.B.), 1899.  
Union Theological Seminary, B.D., 1902.  
*Sociology and Statistics, Political Economy and Finance, Political Philosophy.*
- SMITH, ABRAHAM.....(Mhtn) New York City  
College of the City of New York, B.S., 1898.  
*Germanic Languages and Literatures, Education.*
- \*SMITH, ALEXANDER GODFREY.....(Bklyn) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*Psychology, Education, English.*
- SMITH, ALMERON WARREN.....(Mhtn) New York City  
University of Michigan, B.L., 1894.  
*Constitutional Law, American History.*
- SMITH, DAVID A.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
*Education, Comparative Literature, English.*
- SMITH, HENRY KIRKLAND.....Ilion, N. Y.  
Columbia University, A.B., 1902.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- SMITH, PRESERVED.....Amherst, Mass.  
Amherst College, A.B., 1901.  
Columbia University, A.M., 1902.  
*European History, American History, Constitutional Law.*
- SMITH, TIRZAH SNELL.....(Mhtn) New York City  
Mt. Holyoke College, A.B., 1900.  
*Latin Language and Literature, English.*
- SMITH, WILLIAM EDWARD.....(Mhtn) New York City  
*Physics.*
- \*SMITH, WILLIAM WALTER.....(Mhtn) New York City  
Princeton University, A.B., 1889; A.M., 1892.  
Columbia University, M.D., 1895.  
*Education.*
- SMYTH, SAMUEL, JR.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Education, Mathematics.*
- SNIDER, GUY EDWARD.....Des Moines, Ia.  
University of Wisconsin, B.L., 1901.  
University of Missouri, A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics.*
- SNOOK, JOHN HENRY.....Rochester, Mich.  
University of Michigan, A.B., 1901.  
*Sociology and Statistics, European History.*
- SOMERS, HAROLD.....(Bklyn) New York City  
Brooklyn Polytechnic Institute, A.B., 1902.  
*Comparative Literature, Philosophy.*
- SONNA, AGATHA JEAN.....Boise, Idaho  
Wellesley College, A.B., 1899.  
*English Language and Literature, Comparative Literature, European History.*
- SPENCER, EDWARD BUCKHAM TAYLOR.....Denver, Colo.  
De Pauw University, A.B., 1888.  
*Greek, Roman Archaeology.*
- SPENCER, HENRY RUSSELL.....(Mhtn) New York City  
Colby College, A.B., 1899.  
Columbia University, A.M., 1901.  
*American History, Political Economy and Finance.*

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- §SPRINGMEYER, CHARLES EDWIN.....(Mhntn) New York City  
College of the City of New York, A.B., 1897.  
*Education, English.*
- STACKPOLE, EVERETT BURNLEY.....Bradford, Mass.  
Bowdoin College, A.B., 1900.  
Columbia University, A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- STARR, FREDERICK.....(Mhntn) New York City  
College of the City of New York, B.S., 1899.  
*Romance Languages and Literatures.*
- STAUNTON, HENRY CAPEN.....(Mhntn) New York City  
Columbia University, A.B., 1899.  
*Psychology, Philosophy, Ancient History.*
- STEPANEK, BEATRICE.....Cedar Rapids, Ia.  
Wellesley College, A.B., 1895.  
Columbia University, A.M., 1902.  
*Greek Language and Literature, Latin.*
- STEPHENS, JULIA W.....(Mhntn) New York City  
Vassar College, A.B., 1893.  
*Latin Language and Literature.*
- STEPHENSON, JOHN CHARLES.....Bay Shore, N. Y.  
College of the City of New York, A.B., 1885.  
General Theological Seminary, S.T.B., 1893.  
*Philosophy.*
- STEWART, MARSHALL BOWYER.....Linden, Md.  
Trinity College (Hartford), A.B., 1902.  
*Comparative Literature, European History.*
- STIMSON, JULIA CATHERINE.....(Mhntn) New York City  
Vassar College, A.B., 1901.  
*Zoology, Education.*
- STONE, DORA.....(Mhntn) New York City  
Gymnasium, Vidinsky, Russia (equiv. A.B.), 1898.  
*Political Economy and Finance.*
- STRATFORD, ALINE CROQUET.....(Bklyn) New York City  
Columbia University, A.B., 1897; A.M., 1899.  
*English Language and Literature.*
- †STREETER, STELLA GEORGIANA.....Cummington, Mass.  
Smith College, B.S., 1898.  
*Education, Botany, Zoology.*
- †STRONG, WILLIAM MARLON.....(Bklyn) New York City  
Colgate University, A.B., 1894.  
*Education.*
- SUMNER, MARY BROWN.....(Mhntn) New York City  
Columbia University, A.B., 1900.  
*European History.*
- † SWICK, DAVID A.....(Mhntn) New York City  
College of the City of New York, B.S., 1899.  
*Education, Comparative Literature, English.*
- \*SWIFT, F. HARPER.....(Bklyn) New York City  
Dartmouth College, A.B., 1898.  
*Education, European History, Philosophy.*
- TALMAGE, JOHN FRELINGHUYSEN.....Tuxedo Park, N. Y.  
Yale University, A.B., 1895.  
New York Law School, LL.B., 1897.  
*International Law.*
- TATLOCK, JESSIE MAY.....(Mhntn) New York City  
Bryn Mawr College, A.B., 1900.  
*Latin Language and Literature.*

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- TAVENNER, EUGENE.....(Mhtn) New York City  
Columbia University, A.B., 1901.  
*Latin Language and Literature, Greek.*
- TERRY, CHARLES HORTON.....(Bklyn) New York City  
Wesleyan University, A.B., 1902.  
*Sociology and Statistics.*
- THAW, EDWARD.....(Mhtn) New York City  
Princeton University, A.B., 1894.  
*Political Economy and Finance, Constitutional Law, Administrative Law.*
- THOMAS, HELEN LOUISE.....Holbrook, Mass.  
Boston University, A.B., 1890.  
*English Language and Literature, Education, Sociology and Statistics.*
- THOMAS, JOHN WESLEY.....(Bklyn) New York City  
Dickinson College, A.B. 1881.  
Syracuse University, Ph.D., 1895.  
*Romance Languages and Literatures.*
- †THOMAS, WENDELL M.....Cranford, N. J.  
Ohio Wesleyan University, A.B., 1893.  
*Education.*
- †THOMAS, WILLYS EVERMAN.....Cranford, N. J.  
Ohio Wesleyan University, A.B., 1897.  
*English Language and Literature, Education.*
- THOMAS, WINFIELD SCOTT.....(Mhtn) New York City  
Johns Hopkins University, A.B., 1880.  
*Education, Psychology.*
- THOMPSON, HOLLAND.....(Mhtn) New York City  
University of North Carolina, Ph.B., 1895.  
Columbia University, A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics.*
- THOMPSON, MAURICE JOSEPH.....(Bklyn) New York City  
Rutgers College, A.B., 1880.  
*Mathematics, Mechanics, Education.*
- THOMPSON, ROY WALTER.....(Mhtn) New York City  
Leland Stanford, Jr. University, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- THOMPSON, WESLEY DEE.....Deport, Tex.  
Cumberland University, A.B., 1897; B.D., 1900.  
*American History, European History, Sociology and Statistics.*
- THOMSON, CHARLES KENNETH.....Harrisburg, Pa.  
Louisiana State University, B.S., 1891; C.E., 1892.  
*Philosophy, Sociology and Statistics.*
- THORNDIKE, EVERETT LYNN.....Lynn, Mass.  
Wesleyan University, A.B., 1902.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- THORPE, WALTER.....Newark, Eng.  
*Sociology and Statistics.*
- TINKER, WELLINGTON HUTCHINSON.....St. Johnsbury, Vt.  
Amherst College, A.B., 1899.  
*Sociology and Statistics.*
- TITSWORTH, SUSAN SAYRE.....Milwaukee, Wis.  
Smith College, A.B., 1897.  
*American History.*
- TODD, EDWIN SMITH.....Springfield, O.  
Wittenberg College, A.B., 1893; A.M., 1897; Ph.D., 1901.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- TRAVIS, THOMAS.....Bloomfield, N. J.  
Wesleyan University, Ph.B., 1900.  
*Political Economy and Finance.*

† Also a candidate for the Master's Diploma, Teachers College.

- TREAT, PAYSON JACKSON.....(Mhtn) New York City  
Wesleyan University, A.B., 1900.  
*American History.*
- \*TUCKER, LOUISE EMERY.....(Bklyn) New York City  
Adelphi College, A.B., 1900.  
Columbia University, A.M., 1901.  
*Education.*
- TUCKER, SAMUEL MARION.....Spartanburg, S. C.  
Wofford College, A.B., 1896.  
Columbia University, A.M., 1901.  
*English Language and Literature.*
- TURRELL, CHARLES ALFRED.....Fredonia, Kan.  
University of Nebraska, B.S., 1896.  
University of Missouri, A.M., 1901.  
*Germanic Languages and Literatures, Romance Philology.*
- UFFORD, MABEL MORRIS.....New Haven, Conn.  
Smith College, B.L., 1899.  
*English Language and Literature, Comparative Literature.*
- UKON, WASAKU.....Osaka, Japan  
Semmon Gakko, Tokyo (equiv. A.B.), 1901.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- VAN AKEN, ELBERT WAYLAND.....Pittsford, Mich.  
Hillsdale College, A.B., 1899.  
Hillsdale Theological Seminary, B.D., 1901.  
*Sociology and Statistics, Political Economy and Finance, Philosophy.*
- VANCE, RUFUS ADAIR.....(Mhtn) New York City  
Missouri Valley College, A.B., 1893.  
New York Law School, LL.B., 1902.  
*International Law, Constitutional Law, English.*
- VANDERBECK, MARY COURTLAND.....Englewood, N. J.  
Smith College, A.B., 1893.  
University of Michigan, A.M., 1902.  
*Latin Language and Literature, Roman Archæology, Education.*
- VAN NAME, WARREN MERSEREAU.....(Bklyn) New York City  
Columbia University, A.B., 1899.  
*English Language and Literature.*
- VAN VLIET, JESSIE LOUISE.....(Mhtn) New York City  
Wellesley College, A.B., 1885.  
Michigan University, A.M., 1894.  
*Latin Language and Literature.*
- VEDDER, JOHN N.....Schenectady, N. Y.  
Union College, A.B., 1895.  
*Mathematics, Physics, Education.*
- VERHOEFF, MARY.....Louisville, Ky.  
Vassar College, A.B., 1895.  
*Sociology and Statistics, Political Economy and Finance.*
- †VIMONT, MARIE LOUISE.....Des Moines, Ia.  
Northwestern University, B.S., 1901.  
*Education, Zoology.*
- VON NARDROFF, ERNEST R.....(Bklyn) New York City  
Columbia University, E.M., 1886.  
*Physics.*
- VON WIEN, FRANCIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Romance Languages and Literatures.*
- WADE, JOHN EDGAR.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
Columbia University, A.M., 1902.  
*English.*
- WARR, FRANCES LOUISE.....Oneida, N. Y.  
Syracuse University, A.B., 1894.  
*European History.*

\* Also a candidate for the Doctor's Diploma, Teachers College.

† Also a candidate for the Master's Diploma, Teachers College.

- WASHINGTON, CHARLES MILNOR.....Locust, N. J.  
Yale University, A.B., 1889; A.M., 1891.  
*Sanskrit.*
- WAUGH, ALICE MARION.....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*English Language and Literature, Comparative Literature, Education.*
- WEEKS, MABEL FOOTE.....West Medford, Mass.  
Radcliffe College, A.B., 1894.  
*Greek.*
- WELLES, MARY CROWELL.....Newington, Conn.  
Smith College, A.B., 1883.  
*Greek, Sanskrit.*
- WENDT, CORDELIA.....Larchmont, N. Y.  
Columbia University, A.B., 1901.  
*English Language and Literature.*
- WHICHER, GEORGE MEASON.....(Bklyn) New York City  
Iowa College, A.B., 1882.  
*Classical Archaeology and Epigraphy.*
- WHIPPEN, EDWIN THOMAS.....(Mhtn) New York City  
Syracuse University, A.B., 1899.  
*Sociology and Statistics, Political Economy and Finance, Education.*
- WHITE, HORACE LORING.....Burlington, Vt.  
University of Maine, B.S., 1898.  
*Physiology, Physiological Chemistry, Physics.*
- WHITEHALL, FRANK MAKEPEACE.....(Bklyn) New York City  
Adelphi College, A.B., 1901.  
*English Language and Literature.*
- WHITON, HELEN ISABEL.....(Mhtn) New York City  
Smith College, A.B., 1894.  
Columbia University, A.M., 1897; Ph.D., 1898.  
*English Language and Literature.*
- WILLIAMS, DANIEL JENKINS.....Genesee, Wis.  
University of Wisconsin, A.B., 1899; A.M., 1902.  
*Sociology and Statistics, European History, Political Economy and Finance.*
- WILSON, JANE S.....(Mhtn) New York City  
Lake Forest University, A.B., 1888.  
*Latin Language and Literature.*
- WILSON, JOHN HENRY.....Plainfield, N. J.  
St. Stephen's College, A.B., 1896.  
New York University, A.M., 1898.  
*Education.*
- WISSLER, CLARK.....(Mhtn) New York City  
Indiana University, A.B., 1897; A.M., 1899.  
Columbia University, Ph.D., 1901.  
*Psychology.*
- WOHLFARTH, AMELIA.....(Mhtn) New York City  
Columbia University, A.B., 1899; A.M., 1900.  
*Germanic Languages and Literatures.*
- WOLFF, GERTRUDE L.....(Mhtn) New York City  
Columbia University, A.B., 1896.  
*Roman Archaeology, Italian Language and Literature.*
- WOLFF, SAMUEL LEE.....(Mhtn) New York City  
Harvard University, A.B., 1892.  
Columbia University, A.M., 1896; LL.B., 1897.  
*Comparative Literature.*
- WOOD, ALICE IDA.....Bound Brook, N. J.  
Wellesley College, B.S., 1894.  
Columbia University, A.M., 1900.  
*English Language and Literature.*

- ¶WOOD, CHARLES WINTER.....(Mhtn) New York City  
Beloit College, A.B., 1895; A.M., 1898.  
*Education, English.*
- WOOD, ELIZABETH CORINNE.....Pittsburg, Pa.  
Allegheny College, A.B., 1889.  
*European History.*
- WOOD, ELEANOR DENNISTOUN.....(Mhtn) New York City  
Bryn Mawr College, A.B., 1902.  
*Philosophy, Logic.*
- WOODHULL, MARIANNA.....(Mhtn) New York City  
Smith College, A.B., 1887.  
*Comparative Literature, English.*
- †WOODHULL, MARY CALDWELL.....Craigville, N. Y.  
Columbia University, A.B., 1900.  
*Education, European History.*
- WOODRUFF, LORANDE LOSS.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Zoology, Physiology.*
- †WOOLF, HENRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1895.  
*Education, Ancient History.*
- WÜRTELE, ARTHUR HUNTER.....Acton Vale, Quebec, Can.  
University of Bishops College (Canada), A.B., 1897.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- YATSU, NAOHIDÉ.....Tokyo, Japan  
Imperial University, Tokyo (equiv. A.B.), 1900.  
*Zoology.*
- YOSHIOKA, SEIMEI.....Nagasaki-ken, Japan  
Aoyama Gakuin, Tokyo (equiv. A.B.), 1897.  
*Philosophy.*
- YEN, CHIN-YUNG.....Canton, China  
Imperial Tientsin University (equiv. A.B.), 1901.  
*Constitutional Law, American History, Political Economy and Finance.*
- YOUNG, DAVID KING, JR.....Clinton, Tenn.  
University of Tennessee, B.S., 1899.  
*Sociology and Statistics, Philosophy.*
- ZEIGER, FRANKLIN.....Montclair, N. J.  
Columbia University, A.B., 1898; A.M., 1900.  
*Philosophy.*
- ZIEGLER, CHARLES EDWARD.....(Mhtn) New York City  
College of the City of New York, A.B., 1898.  
*Education, English.*

## SUMMARY

STUDENTS PRIMARILY REGISTERED UNDER THESE FACULTIES... 532

STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY, CANDI-  
DATES FOR THE DEGREES OF A.M. OR PH.D.:

From the School of Law.....	57
From the College of Physicians and Surgeons.....	16
From the Schools of Applied Science.....	4

77

Total..... 609

† Also a candidate for the Master's Diploma, Teachers College.

¶ Also a candidate for the Secondary Diploma, Teachers College.



## BARNARD COLLEGE

### TRUSTEES

ABRAM S. HEWITT, LL.D., *Chairman*

Mrs. A. A. ANDERSON, *Vice-Chairman*

FREDERICK S. WAIT, *Clerk*

GEORGE A. PLIMPTON, *Treasurer*

Miss HELEN DAWES BROWN

SETH LOW, LL.D.

SILAS B. BROWNELL, LL.D.

HAMILTON W. MABIE, L.H.D.

Mrs. WILLIAM C. BROWNELL

Mrs. ALFRED MEYER

NICHOLAS MURRAY BUTLER, Ph.D.,  
LL.D.

Mrs. HENRY N. MUNN

Mrs. H. FAIRFIELD OSBORN

Mrs. JOSEPH H. CHOATE

Mrs. GEORGE HAVEN PUTNAM

Miss FLORENCE COLGATE

Mrs. HENRY M. SANDERS

FREDERIC R. COUDERT, LL.D.

EDWARD W. SHELDON

Rev. WILLIAM M. GROSVENOR, D.D.

Mrs. JAMES S. T. STRANAHAN

FREDERIC B. JENNINGS

Mrs. JAMES TALCOTT

FRANKLIN B. LORD

EVERETT P. WHEELER

### Committee on Finance

Mr. HEWITT

Mrs. MEYER

Mr. JENNINGS

Mrs. PUTNAM

Mr. LORD

Mr. SHELDON

Mrs. TALCOTT

### Committee on Buildings and Grounds

Mrs. ANDERSON

Mrs. MUNN

Mr. BUTLER

Mrs. OSBORN

Mr. HEWITT

Mr. WAIT

Mr. LOW

Mr. WHEELER

### Committee on Education

Mr. BROWNELL

Mr. HEWITT

Mr. BUTLER

Mr. MABIE

Miss COLGATE

Mrs. SANDERS

Mr. GROSVENOR

Mr. SHELDON

### Officers of Administration

N. W. LIGGETT, A.B., *Bursar*

MARY F. KNOX, A.B., *Registrar*

ANNA E. H. MEYER, A.B., *Secretary*

## THE FACULTY

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.,	<i>President</i>
LAURA DRAKE GILL, A.M.,	<i>Dean</i>
THOMAS R. PRICE, M.A., LL.D....	<i>Professor of English Language and Literature</i>
EDWIN R. A. SELIGMAN, Ph.D....	<i>Professor of Political Economy and Finance</i>
HERBERT L. OSGOOD, Ph.D.....	<i>Professor of History</i>
EDWARD DELAVAN PERRY, Ph.D..	<i>Jay Professor of Greek Language and Literature</i>
WILLIAM HALLOCK, Ph.D.....	<i>Professor of Physics</i>
GEORGE RICE CARPENTER, A.B....	<i>Professor of Rhetoric and English Composition</i>
FRANKLIN HENRY GIDDINGS, Ph.D., LL.D.....	<i>Professor of Sociology</i>
JOHN B. CLARK, Ph.D., LL.D.....	<i>Professor of Political Economy</i>
JAMES RIGNALL WHEELER, Ph.D.....	<i>Professor of Greek</i>
FRANK N. COLE, Ph.D.....	<i>Professor of Mathematics</i>
JAMES HARVEY ROBINSON, Ph.D.....	<i>Professor of History</i>
CALVIN THOMAS, A.M..	<i>Gebhard Professor of the Germanic Languages and Literatures</i>
CARLO LEONARDO SPERANZA, A.M., B. ès L.....	<i>Professor of Italian</i>
WILLIAM P. TRENT, M.A., LL.D.....	<i>Professor of English Literature</i>
MORTIMER LAMSON EARLE, Ph.D.....	<i>Professor of Classical Philology</i>
HERBERT GARDINER LORD, A.M.....	<i>Professor of Philosophy</i>
NELSON GLENN MCCREA, Ph.D.....	<i>Adjunct Professor of Latin</i>
MARSTON TAYLOR BOGERT, A.B., Ph.B.....	<i>Adjunct Professor of Organic Chemistry</i>
BENJAMIN D. WOODWARD, Ph.D..	<i>Professor of the Romance Languages and Literatures</i>
HENRY E. CRAMPTON, Ph.D.....	<i>Adjunct Professor of Zoölogy</i>
HENRY ROGERS SEAGER, Ph.D.....	<i>Adjunct Professor of Political Economy</i>
HENRY L. MOORE, Ph.D.....	<i>Adjunct Professor of Political Economy</i>
WILLIAM TENNEY BREWSTER, A.M.....	<i>Adjunct Professor of English</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor of Classical Philology</i>

## Standing Committees of the Faculty

COMMITTEE ON CURRICULUM AND SCHEME OF ATTENDANCE: The Dean, *chairman*, Professors Robinson, Earle, Crampton, and Woodward.

COMMITTEE ON ADMISSION: Professors Earle, *chairman*, Cole, and Trent.

COMMITTEE ON SCHOLARSHIPS: The Dean, *ex-officio, chairman*, Professor Brewster, and Dr. Maltby.

COMMITTEE ON HONORS: Professors Lord, *chairman*, Trent, and Woodward.

## Other Officers of Instruction

HERBERT MAULE RICHARDS, S.D.....	<i>Instructor in Botany</i>
MARGARET E. MALTBY, Ph.D.....	<i>Instructor in Chemistry</i>
ADAM LEROY JONES, Ph.D.....	<i>Instructor in Philosophy</i>
RUDOLF TOMBO, Sr., Ph.D.....	<i>Tutor in German</i>
WILLIAM S. DAY, Ph.D.....	<i>Tutor in Physics</i>
* HENRY JAGOE BURCHELL, Jr., A.M.....	<i>Tutor in Classical Philology</i>
LOUISE BRISBIN DUNN, A.M.....	<i>Tutor in Botany</i>
EDWARD KASNER, Ph.D.....	<i>Tutor in Mathematics</i>
HENRY BARGY, A.M..	<i>Tutor in the Romance Languages and Literatures</i>
WILLIAM ALFRED BRAUN, A.B.....	<i>Tutor in German</i>
WILLIAM A. NITZE, Ph.D.....	<i>Tutor in the Romance Languages and Literatures</i>
WILLIAM FINDLAY, Ph.D.....	<i>Tutor in Mathematics</i>
WILLIAM E. KELLICOTT, A.B.....	<i>Tutor in Zoölogy</i>
ALVIN SAUNDERS JOHNSON, A.M.....	<i>Tutor in Political Economy and Sociology</i>
GEORGE N. OLCOTT, Ph.D.....	<i>Lecturer in Roman Archæology</i>
JAMES DENNISON ROGERS, Ph. D.....	<i>Lecturer in Greek</i>
JAMES T. SHOTWELL, A.B.....	<i>Lecturer in History</i>
ELEANOR KELLER, A.B.....	<i>Lecturer in Chemistry</i>
HARRY ALONZO CUSHING, Ph.D.....	<i>Lecturer in History</i>
VICTOR J. CHAMBERS, Ph.D.....	<i>Lecturer in Organic Chemistry</i>
ELSIE CLEWS PARSONS, Ph.D.....	<i>Lecturer in Sociology</i>
VIRGINIA C. GILDERSLEEVE, A.M.....	<i>Assistant in Rhetoric</i>
GEORGE I. FINLAY, A.B.....	<i>Assistant in Zoölogy</i>
GERTRUDE M. HIRST, Ph.D.....	<i>Assistant in Classical Philology</i>
JULIA NELSON COLLES, A.M.....	<i>Assistant in Physics</i>
FRANCES CAMPBELL BERKELEY, A.B.....	<i>Assistant in Rhetoric</i>
JEAN BROADHURST.....	<i>Assistant in Botany</i>
GUSTAV HINRICHS.....	<i>Conductor of Music</i>

For other officers of the University who may give instruction to students of Barnard College, consult the several departmental statements.

In 1883 the Trustees of Columbia College offered degrees to women who should be able to pass the necessary examinations, without, however, providing instruction for them. The resulting system, called *The Collegiate Course for Women*, proved unsatisfactory to both parties. It was found necessary to provide instruction for women which should be identical with or equivalent to that provided by Columbia for men, and in 1889 Barnard College was organized with this purpose in view.

For eleven years it duplicated for women as far as possible the curriculum of Columbia College, and also registered for graduate work under the University Faculties women who held the bachelor's degree

\* Absent on leave.

from institutions of good standing. Its instructors were members of the university staff. Examinations for entrance to Barnard College, those given in course, and those for degrees, were conducted by Columbia University. During the first three undergraduate years separate instruction was given to women; in the senior year they were admitted to certain courses in the University. Graduate students attended many courses at Columbia University under the Faculties of Philosophy and Political Science. Under the Faculty of Pure Science, lecture courses only were open at the University, laboratory work being done at Barnard College.

However, Barnard's numerical growth has for several years past made inappropriate the informal arrangement for instruction which was the natural method at the outset. Its students grew to form a considerable fraction of the total number of undergraduates under the care of Columbia instructors, and the graduates registered through Barnard began to have an appreciable effect upon the university statistics. It therefore became necessary to recognize formally the status which had gradually come into existence, and accordingly an agreement was entered into by which Barnard is included in the university system. Its experience in relation to Columbia has differed widely from that of any other affiliated college in relation to its university. The gradual *rapprochement* consummated in the agreement signed in January, 1900, has proceeded without check. Barnard is an independent college for women, with a corporation and a faculty of its own, vested with all the powers commonly belonging to such bodies. At the same time, it shares the library, the instruction, and the degrees of Columbia University.

A more exact idea of the relations between Barnard College and Columbia University is given by the following *résumé* of the agreement above mentioned.

According to the agreement made January 19, 1900, between the Trustees of Columbia University and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, *ex-officio*, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College, and shall have general supervision and direction of the educational administration of such College, as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard

College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That, on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the senior year, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women. The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of

Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

By the terms of an agreement between Columbia University and Barnard and Teachers Colleges, students of Teachers College are permitted to attend courses in Barnard College. This institution offers reciprocal advantages to the students of Barnard College. Courses which are counted toward a Teachers College diploma and are open to seniors in Columbia College are also open to seniors of Barnard College.

## ADMISSION

The Committee on Admission has charge of everything relating to this subject.

Candidates for the bachelor's degree must have fulfilled the requirements for admission, below, and must conform to the regulations governing the course of study leading to the degree of Bachelor of Arts. (For particulars see the Announcement of Barnard College.) Students who do not wish to proceed to a degree are enrolled as special students; they will, however, in the event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

Candidates for admission to the freshman class must, at the time of matriculation, be at least fifteen years of age; and for admission to advanced standing a corresponding increase of age is required; but exceptions to this rule may be made when, in the opinion of the Committee on Admission, there are sufficient reasons to justify them.

Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some citizen properly qualified, and students from other institutions must bring certificates of honorable dismissal.

Every candidate for admission to the freshman class is required at the entrance examinations to offer subjects amounting to fifteen (15) points \* as indicated below.

The candidate *must* offer

English (page 190) .....	counting 3 points
Elementary Latin (page 198) .....	" 4 "
Elementary Mathematics (page 199) ..	" 3 "

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering the corresponding elementary subject as well:

Elementary Greek (page 196) .....	counting 3 points
Elementary History (page 197) .....	" 1 point
Intermediate French (page 193) .....	" 1 "
Intermediate German (page 195) .....	" 1 "
Advanced History (page 197) .....	" 1 "
Advanced Mathematics (page 200) ....	" 1 "
Advanced Latin (page 199) .....	" 1 "
Advanced Greek (page 197) .....	" 1 "
Advanced Physics (page 201) .....	" 1 "

The candidate may offer not more than 4 points in all from the three subjects following:

Elementary French (page 192) .....	counting 2 points
Elementary German (page 194) .....	" 2 "
Spanish (page 201) .....	" 2 "

The candidate may offer not more than 2 points in all from the five subjects following:

Elementary Physics (page 200) .....	counting 1 point
Chemistry (page 189) .....	" 1 "
Botany (page 188) .....	" 1 "
Physiography (page 201) .....	" 1 "
Zoölogy (page 202) .....	" 1 "

The definitions of the requirements in each subject as well as the regulations governing the filing of applications for entrance examinations and the division of examinations are the same at Barnard College as at Columbia. A time-schedule of the examinations may be obtained from the Secretary of the University.

### Certificates in Lieu of Entrance Examinations

Barnard College accepts, in lieu of its entrance examinations, no

\*The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; to the subjects units are assigned in accordance with the time required adequately to prepare in them for college entrance.

credentials of any sort except the Regents' Academic Diploma \* and the certificates of universities and colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All certificates offered in lieu of entrance examinations must be in the hands of the chairman of the Barnard College Committee on Admission at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are accepted in whole or in part will be posted on the bulletin board at least one day in advance of the beginning of the examinations.

*The separate pass-cards, the Academic Equivalent Certificate, and the several other certificates issued by the Regents of the State of New York, are not accepted by the College in lieu of the examinations.*

*The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the College.*

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Report of Entrance Examinations

The Committee on Admission will report to the Dean as soon as may be after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, and of those who must present themselves for re-examination in September.

The Committee on Admission will report to the Dean, not later than one week after the conclusion of the entrance examinations in September, the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

Except for reasons of weight, satisfactory to the Committee on Admission, the results of an entrance examination will not be allowed to stand to the credit of a candidate for a longer period than sixteen months.

\* Every Regents' Academic Diploma is considered as covering the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in Elementary French unless it covers the complete two-years' high-school course in French recognized by the Regents. The third-year French will be accepted as equivalent to the Intermediate French, provided that the Regents' examination in that subject was not taken more than sixteen months before the date of the candidate's admission to Barnard College. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in Elementary German unless it covers the complete two-years' high-school course in German. The third-year German will be accepted as equivalent to the Intermediate German provided that the Regents' examination in that subject was not taken more than sixteen months before the date of the candidate's admission to the College. A Regents' Academic Diploma, to be accepted in lieu of all parts of the examination in Latin or of the examination in Greek, must specifically cover, among other things, sight reading and prose composition. In the case of the natural sciences a Regents' Academic Diploma will not be accepted for the required laboratory work.



### Admission to Advanced Standing

Candidates for admission from other colleges, and those desiring to be admitted to advanced standing on examination, must make application in writing to the Barnard College Committee on Admission. Proper blanks for the purpose may be obtained from the Registrar. The application should be made at least one week before the first day of the September entrance examinations.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of :

1. The requirements for admission to the Freshman class,
2. All the prescribed studies already pursued by the class to which she seeks admission,
3. As many elective studies as she would have pursued if she had entered the class at the beginning of the Freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the A.B. degree until she shall have brought all her studies up to the point required for that degree.

Every candidate from another college is required to furnish (1) official statements of her record in her various college studies, (2) letters or other evidence showing the opinion of her instructors in regard to her scholarship and character, (3) an honorable dismissal from the college which she is leaving, and (4) a catalogue or announcement of the college that she leaves in which are plainly marked every requirement for admission and every course of instruction for which she has received credit.

### SPECIAL STUDENTS

Special courses of study are offered by the College to young women, of proper age and character, who wish, without reference to any degree, to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the Freshman class. Candidates for admission as special students are required to present themselves at the entrance examinations and to fulfil the full requirements for admission to the Freshman class. Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Registrar.

Once admitted to the College special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

*Except for reasons of weight, satisfactory to the Committee on Admission, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application,*

*been rejected as a regular student, or has, within that period, become deficient as a regular student.*

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

Admission may be obtained to courses in music without examination in any subject except English. The written authorization of the Director of the Department of Music must be presented by the candidate to the Registrar at the time of registration.

## SCHOLARSHIPS AND PRIZES

### Competitive Scholarships

There are fifteen honor scholarships, which are awarded for excellence in entrance examinations on the nomination of the Committee on Admission. Each of these scholarships entitles its holder to receive the sum of \$150 annually, applicable to the fees of the year in which it is held. But if a holder of an honor scholarship fail to maintain a standing of at least grade C in all the courses pursued by her, or if she commit any breach of good order, she shall forfeit the scholarship.

#### Trustees' Competitive Scholarship

A scholarship of \$150 (valid for one year only) is awarded annually by the Board of Trustees to the student who passes in June the best complete entrance examination in all subjects.

#### The Brooklyn Scholarships

Twelve scholarships, founded by the Trustees of Columbia University in 1895, in recognition of the gift to Columbia University by President Low of a memorial building for the University library, are open for competition to candidates for admission to Barnard College who are residents of Brooklyn, N. Y., and have received their training in either the public or the private schools of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June without conditions the best complete entrance examinations in all subjects, and may (unless forfeited) be held for the whole course.

Should any recipient desire, she may, while retaining the title "Brooklyn Scholar," transfer to any properly qualified candidate from Brooklyn the income from the scholarship; and such action on her part will not be made a matter of public record.

#### Lucille Pulitzer Scholarship

A fund of \$10,000 was given in 1899 by Joseph Pulitzer, Esq., to establish a scholarship in memory of his daughter, Lucille Pulitzer. The annual income of the fund is applied to the use of the holder of the scholarship, which is awarded by the Trustees to the undergraduate student entering the College from the city of New York who is found to have passed the best examinations and to have shown herself to be the most worthy in every way.

#### Jessie Kaufmann Scholarship

A fund of \$4000 was given in 1902 by Julius Kaufmann, Esq., to establish a scholarship in memory of his daughter, Jessie Kaufmann. The annual income of the fund shall be awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially, and is to be held for the entire college course unless forfeited under the general conditions and rules of the College.

#### Non-competitive Scholarships

The non-competitive scholarships are awarded by the Committee of the Trustees on Scholarships on the nomination of the corresponding Committee of the Faculty. They are only available (unless otherwise stipulated by the donors) for students who have passed one year in the College, who have proved their worthiness and capacity, and who cannot unaided meet the expenses of a college education.

These scholarships are awarded annually *for one year only*; and the application with full credentials must be filed on or before April 1 of each year on regular application blanks to be obtained at the Dean's office.

The holder of a scholarship receives the sum of \$150, applicable to the fees of the year for which the scholarship is awarded; but if she fail to maintain a standing of at least grade C in all the courses pursued by her, or if she commit any breach of good order, she shall not be eligible to reappointment for the following year.

#### Student Scholarships

The Committee of the Trustees on Scholarships have assumed the financial responsibility for twelve scholarships, to be awarded annually in aid of worthy students. The money has been provided annually by gifts; but an effort is now being made to establish a Scholarship Endowment Fund, so that the annual solicitation of gifts may become unnecessary.

#### Ella Weed Scholarship

A scholarship of \$150, founded by the pupils of Miss Anne Brown's School, in memory of Miss Ella Weed (who was Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of the existence of the College), is awarded annually to a student who needs and deserves assistance.

#### Fiske Scholarship Fund

A sum of \$250, the income of a fund given by Mrs. George Whitfield Collord, is placed at the disposal of the Dean, to be awarded in aid of needy students.

#### Veltin School Scholarship

A scholarship of \$150, given by the alumnae of Mlle. Veltin's School, is awarded annually on the same conditions as the Ella Weed Scholarship.

## Arthur Brooks Fund

A fund of \$5000 was given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Rev. Arthur Brooks, D.D., Rector of the Church of the Incarnation, and chairman of the Board of Trustees of Barnard College during the first six years of the existence of the College. The interest of the fund is used to aid needy and deserving students of the College.

## Mrs. Donald McLean Scholarship

A scholarship of \$150, founded in 1898 by the New York Chapter of the Daughters of the American Revolution, is awarded to a student who needs and deserves it, and who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her course. The scholarship is awarded annually in conference with a representative of the New York Chapter of the Daughters of the American Revolution.

## Jennie B. Clarkson Scholarship

A scholarship of \$150, founded in 1898 by Mrs. W. R. Clarkson, is awarded annually to a student who deserves assistance.

## Emily James Smith Scholarship

This scholarship was founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of the College. It is awarded annually in conference with the founder.

## Anna E. Barnard Scholarship

This scholarship was founded in 1899 by Miss Emily H. Bourne in honor of her sister, Mrs. John G. Barnard. It is awarded annually on the same terms as the Emily James Smith Scholarship.

## The Brearley School Scholarship

A scholarship of \$150, given in 1899 by pupils and former pupils of the Brearley School, will be awarded annually to a student who deserves assistance.

## The Eliza Taylor Chisholm Memorial Scholarship

A scholarship of \$150, given in 1901 by the Alumnae Association of Miss Chisholm's School, will be awarded annually by the Committee on Scholarships of the Faculty to a student in need of assistance, said Alumnae Association reserving the privilege of precedence for such candidates as they may recommend.

## The Graham School Scholarship

A scholarship of \$150, given in 1901 by the Graham Alumnae Association, is awarded annually to a student who deserves assistance.

## Hartley House Lectureship

The importance of training in accurate habits of social observation as a preparation for the technical study of advanced problems in

sociology, or for the active work of philanthropy and social reform, has long been recognized by both teachers and practical workers. Provision for such training of students of Barnard College has been made in the founding of the Hartley House Fellowship. The holder of this fellowship in 1897-98 and 1898-99 was Miss Lydia S. Cody, A.B. (Boston University), to whose suggestions and personal efforts the establishment of this instruction was largely due. The holder of the fellowship for the years 1899-1902 was Mrs. Herbert Parsons, Ph.D. In 1902 the fellowship was changed to a lectureship, and is to be held for the year 1902-03 by Mrs. Herbert Parsons, who will give personal direction to students who wish to undertake observational work, and the entire instruction will be under the general charge of the Professor of Sociology. The advantages offered will include opportunities to become familiar with the work of the more important private institutions for social betterment in New York City, such as the State Charities Aid Association, the Charity Organization Society, the New York Association for Improving the Condition of the Poor, and the various social settlements, as well as to study the organization and working of various public agencies charged with the welfare of the community. This work has the coöperation of Hartley House, which extends special facilities therefor, and also offers exceptional opportunities for summer residence to the students of sociology in the College.

#### Herrman Botanical Prize

A prize of \$50, founded by Mrs. Esther Herrman, will be awarded annually to the most proficient undergraduate student of botany.

#### Kohn Mathematical Prize

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

#### Bunner Medal

By the terms of its establishment, the A. C. Bunner gold medal (page 33) is open for competition to students in Barnard College.

## REGISTER OF STUDENTS

### SENIOR CLASS

ADDOMS, JESSIE ALICE.....	(Bklyn)	New York City
ALSOP, GULIELMA FELL.....	(Bklyn)	New York City
BALL, MARION ELIZABETH PRUYN.....	(Mhtn)	New York City
BAMBERGER, ALICE CLARA JUDITH.....	(Mhtn)	New York City
CAHN, ANITA GELLA.....	(Mhtn)	New York City
CHEESMAN, FLORENCE PALMER.....	(Mhtn)	New York City
CLARK, GERTRUDE HELEN.....	(Mhtn)	New York City
CLOUGH, BERTHA.....		Lockhaven, Pa.
COHEN, HELEN LOUISE.....	(Mhtn)	New York City
COLT, MARY ELIZABETH SCOVELL.....		Buffalo, N. Y.
DANIELS, HARRIET McDOUAL.....		Clinton, N. Y.
FITCH, ELLICE HEATON.....	(Mhtn)	New York City
FRY, EDNA LOUISE.....	(Bklyn)	New York City
GROFF, MARY.....		Jersey City, N. J.
GRUENING, CLARA EMILY.....	(Mhtn)	New York City
HARRISON, MARY FREDERICKA.....	(Bklyn)	New York City
HERZFELD, ELSA GOLDINA.....	(Mhtn)	New York City
HOLT, SARAH ADALINE.....		Belmont, Mass.
HOPE, IDA MAY.....	(Mhtn)	New York City
HORN, ELIZABETH.....		Belvidere, N. J.
HOWARD, CLARE MACLLELEN.....	(Mhtn)	New York City
HOWE, RUTH BOUTON.....		Geneseo, N. Y.
JOHNSON, MAY AMERMAN.....	(Mhtn)	New York City
JONES, EDNA BLANCHE.....	(Mhtn)	New York City
KING, HELEN LOUISE.....	(Mhtn)	New York City
KOHN, LUCILE.....	(Mhtn)	New York City
KROEBER, ELSEBETH.....	(Mhtn)	New York City
LATHAM, MARION ELIZABETH.....	(Mhtn)	New York City
MILLER, JEAN WALLACE.....	(Mhtn)	New York City
NEWTON, ETHEL BLANCHARD.....	(Bklyn)	New York City
POOL, ETHEL MANTER.....	(Mhtn)	New York City
POOLE, KATHERINE ELLEN.....		Faribault, Minn.
RAUH, FLORENCE ETHEL.....	(Mhtn)	New York City
ROBINSON, AMELIA MAUDE.....		Sayville, N. Y.
ROGERS, HELEN MILES.....		Fond du Lac, Wis.
RUSHMORE, ELLEN RILEY.....		Plainfield, N. J.
SEGUINE, LAURA RANDOLPH.....	(R)	New York City
SHAINWALD, MAY SEVILLE.....	(Mhtn)	New York City
SHERMAN, LUCY FIDELIA.....		Peekskill, N. Y.
SKINNER, MADELEINE DAYRELL.....	(Bklyn)	New York City
STERN, IRMA REGINA.....	(Mhtn)	New York City
TANZER, HELEN HENRIETTA.....	(Mhtn)	New York City
THOMPSON, BESSIE ILSLEY.....	(Bklyn)	New York City
TOSCANO, LOUISE JOSEPHINE COLVIN.....	(Q)	New York City
VAN CISE, LAURA KNOWLES.....		Summit, N. J.
WALLACH, ADÈLE NETTIE.....	(Mhtn)	New York City

WALTERS, ELIZABETH ROE.....	(Mhnt) New York City
WARE, ANNA GOODWIN.....	(Mhnt) New York City
WILCOX, ETHEL DODGE.....	Yonkers, N. Y.
Senior Class.....	49

## JUNIOR CLASS

ADAMS, JESSIE BLANCHE.....	(Mhnt) New York City
ADEY, MILDRED HUNT.....	(Mhnt) New York City
APPELL, EDITH MAY.....	Mt. Vernon, N. Y.
APPGATE, CLARA MARGUERITE.....	Newburgh, N. Y.
ARNAUD, LUCY GIULIA.....	(Bklyn) New York City
BACON, MARJORIE KATE.....	(Bklyn) New York City
BARKER, SADIE ROSE.....	Irvington, N. Y.
BEIFELD, MINNIE MARGARET.....	(Mhnt) New York City
BOULGER, MINNIE RANDOLPH.....	(Mhnt) New York City
BUSHONG, ELSIE GRACE.....	Reading, Pa.
BUTTS, EDITH.....	Hoboken, N. J.
CAHEN, ELFIE JULIA.....	(Mhnt) New York City
CAMPBELL, FLORA.....	Plainfield, N. J.
CLAFFY, MARGARET LORETTA CHARLES.....	(Bklyn) New York City
COMPTON, MABEL GRACE.....	(Bklyn) New York City
CURTIS, SARAH THEODORA.....	(Mhnt) New York City
DENTON, MABEL.....	Paterson, N. J.
DOTY, KATHARINE SWIFT.....	(Mhnt) New York City
EGLESTON, JEAN DUNBAR.....	Elizabeth, N. J.
EINSTEIN, MILLY JUDITH.....	(Mhnt) New York City
ELTING, HELEN STICKNEY.....	Yonkers, N. Y.
EMBURY, LUCY BATES.....	Englewood, N. J.
ENRIGHT, EMMA MULFORD.....	Freehold, N. J.
ERSKINE, HELEN.....	(Mhnt) New York City
FISCHER, HELENA MARSHALL.....	(Mhnt) New York City
FOUNTAIN, CHARLOTTE BOYD.....	Jersey City, N. J.
FROTHINGHAM, MARY KATHARINE.....	(Mhnt) New York City
GALLERT, DORIS PAULA.....	(Mhnt) New York City
GRANGER, EDITH ADELL.....	Mt. Vernon, N. Y.
GRAY, MABELLE RETTA.....	(Bklyn) New York City
HAAS, EDITH JOAN.....	(Mhnt) New York City
HASKELL, JULIANA (Mrs. S. H. HASKELL).....	(Mhnt) New York City
HAWES, JANE JEWETT.....	New Rochelle, N. Y.
HAYDOCK, AMELIA.....	(Mhnt) New York City
HILL, HARRIET NEWELL.....	(Mhnt) New York City
HIRSCH, SELMA HELEN.....	(Mhnt) New York City
HIRSHBACH, HELEN FEDERICA.....	(Mhnt) New York City
HOOD, FLORENCE MIFFLIN.....	Baltimore, Md.
HOYT, JESSIE FENTON.....	(Mhnt) New York City
HUBBARD, FLORENCE EDDY.....	(Mhnt) New York City
HUGHAN, ETHEL MARJORIE.....	(Bklyn) New York City
HUNT, MARTHA MARGUERITA.....	Jersey City, N. J.
JOHNSTON, ROSE.....	Middletown, O.
LEERS, HILMA.....	Paterson, N. J.
LEVY, GRACE.....	(Mhnt) New York City
LEWIS, IDA ETHEL.....	Jersey City, N. J.
LEXOW, CAROLINE.....	Nyack, N. Y.
LICHTEN, DORA ELSIE.....	(Mhnt) New York City
LOOMIS, JEAN HERRING.....	(Mhnt) New York City
LYON, ROMOLA.....	(Mhnt) New York City
MCCORMICK, ROSE MARIE.....	Perth Amboy, N. J.
MCLEAN, ELIZABETH.....	Jersey City, N. J.

METCALFE, LIZZETTE MAY.....	(Bklyn) New York City
MILLER, LENA ADELE.....	White Plains, N. Y.
MILLER, MILDRED ELSEGOOD.....	(Bklyn) New York City
MORGAN, CHARLOTTE ELIZABETH.....	(Bklyn) New York City
NEVINS, DORA RUSSELL.....	(Bklyn) New York City
NUTT, RACHEL EVANS.....	Cliffside, N. J.
PARKER, MAY APPLETON.....	(Mhtn) New York City
PETERS, LOUISE EDGAR.....	Englewood, N. J.
POPPER, HILDA.....	(Mhtn) New York City
RIX, MARY LOUISE.....	Lebanon, N. H.
SEYMOUR, JOSEPHINE.....	(Bklyn) New York City
SHELLEY, SARAH ELLEN.....	Mechanicsburg, Pa.
STERN, RUTH MARJORIE.....	(Mhtn) New York City
STOBO, JEANNETTE RUSSELL.....	(Mhtn) New York City
STONE, MARGARET HOLMES.....	(Mhtn) New York City
SWAN, BESSIE LOUISE.....	Mt. Vernon, N. Y.
THOMAS, MARTHA ELLEN.....	Yonkers, N. Y.
VAN INGEN, EDITH GIFFORD.....	(Bklyn) New York City
WARING, ANNA TALLMAN.....	Piermont, N. Y.
WERTS, HARRIET ESTELLE.....	Jersey City, N. J.
WICK, JEANNETTE.....	(Q) New York City
Junior Class.....	73

## SOPHOMORE CLASS

ANDERSON, HELEN BEATRICE.....	(Q) New York City
BASSETT, ELIZABETH WADDINGTON.....	(Mhtn) New York City
BENNETT, GEORGINA GRACE.....	Hackensack, N. J.
BIGGIN, FLORENCE IRENE.....	Middletown, N. Y.
BOORMAN, ELIZABETH STANFORD SAYRE.....	(Mhtn) New York City
BOSS, ANNA MARIE.....	(Mhtn) New York City
BOVARD, LUELLA LILLIAN.....	(Mhtn) New York City
BROWN, ANN ELIZA.....	(R) New York City
BUCKINGHAM, ELIZABETH.....	(Mhtn) New York City
BYRNE, MARGARET CECILIA.....	(Bklyn) New York City
CALHOUN, EMMA SHAW.....	(Mhtn) New York City
CAMERON, SAMUELLA.....	(Mhtn) New York City
CAPLES, EDITH RICHARDS (Mrs. B. H. CAPLES).....	(Mhtn) New York City
CARPENTER, LULU JANE.....	Port Chester, N. Y.
CATHCART, GERTRUDE LOUISE.....	Plainfield, N. J.
COHEN, HELEN NESSA.....	(Mhtn) New York City
CONOVER, GRACE MORRELLE.....	(Mhtn) New York City
COOLEY, HELEN WILKING.....	(Mhtn) New York City
DAY, ELIZABETH.....	(Mhtn) New York City
DIETZ, EDITH AUGUSTA.....	(Mhtn) New York City
DONNELLY, MARGUERITE.....	(Mhtn) New York City
DORRIAN, CECIL INSLEE.....	(Mhtn) New York City
DRAPER, ALICE OLIN.....	(Mhtn) New York City
EHRRICH, ELSIE.....	(Mhtn) New York City
FARRELLY, GRACE MARIE.....	(Mhtn) New York City
FETTRETCH, EDITH BERRELL.....	(Mhtn) New York City
FISHER, ANNIE FULLER.....	Mt. Vernon, N. Y.
FLETCHER, SALLIE FAULKNER.....	(Bklyn) New York City
FORMAN, ANITA GRACE.....	(Mhtn) New York City
FRANKLIN, MARION.....	(Mhtn) New York City
GOLDSMITH, EVELYN MIRIAM.....	(Mhtn) New York City
GOODYEAR, KATHARINE FRANCIS.....	(Mhtn) New York City
GRAY, MARY GOULD.....	(Bklyn) New York City



HANDY, EDITH BERKELEY.....	(R) New York City
HEIDENHEIMER, ALYNE BENDIT.....	(Mhtn) New York City
HENDRICKS, ETHEL.....	(Mhtn) New York City
HEYMAN, BLANCHE.....	(Mhtn) New York City
HOCHHEIMER, HELEN ALICE.....	(Mhtn) New York City
HOFFMAN, MARGIE ETHEL.....	(Bklyn) New York City
HOYT, SARAH FENTON.....	(Mhtn) New York City
HUTCHINSON, EMILIE JOSEPHINE.....	(Bklyn) New York City
KAPLAN, CARRIE.....	(Mhtn) New York City
KENNEDY, ANNA JOSEPHINE.....	(Bklyn) New York City
LEE, MARY DAY.....	(Mhtn) New York City
LEVY, EDWINA LEAH.....	(Mhtn) New York City
LOCK, MARY.....	Plainfield, N. J.
LYALL, PAMELA WARREN.....	(Mhtn) New York City
McKEE, ELSA DU BOIS.....	(Mhtn) New York City
MEYER, FLORENCE ALMA.....	Yonkers, N. Y.
MEYER, JEANNETTE.....	(Mhtn) New York City
MOTT, ISABELLE.....	(Mhtn) New York City
MUNROE, ELEANORA LOUISE.....	(Mhtn) New York City
MURRAY, LILY SYLVESTER.....	Montclair, N. J.
NYE, FLORENCE ISABELLE.....	(Mhtn) New York City
PALLISER, HELEN LETITIA.....	Dobbs Ferry, N. Y.
PURDON, FRANCIS HOPE.....	(Mhtn) New York City
REEDER, RUTH ANGELINE.....	Hastings, N. Y.
REILEY, ANNA CAMPBELL.....	(Mhtn) New York City
REITLINGER, BLANCHE HORTENSE.....	(Mhtn) New York City
RUSSELL, BESSIE ADALINE.....	(Mhtn) New York City
SALIK, AUGUSTA.....	(Mhtn) New York City
SCHULTZ, NINA.....	(Mhtn) New York City
SCOTT, BESSIE TRIMBLE.....	Passaic, N. J.
SHANLEY, MILDRED ETHEL.....	Litchfield, Conn.
SINNOTT, MAY.....	(Mhtn) New York City
SMITH, ALICE VAN WOERT.....	(Mhtn) New York City
SMITH, MARGUERITE.....	(Mhtn) New York City
SOLOMON, CHARLOTTE LOUISE.....	Syracuse, N. Y.
SPARKMAN, LYDIA HOLT.....	Paterson, N. J.
STABER, HILDA LOUISE.....	(Bklyn) New York City
TALBOT, ABIGAIL ADAMS.....	(Q) New York City
TATTERSHALL, ANNA SARAH.....	White Haven, Pa.
THOMPSON, MARTHA.....	(Mhtn) New York City
THORP, ANNA FRANCES MURIEL.....	Paterson, N. J.
TRIER, BETTY.....	(Bklyn) New York City
VAN BUREN, IRENE.....	Shortsville, N. Y.
WELLE, EDITH.....	Paterson, N. J.
WHEELER, HELENE LOUISE.....	Oswego, N. Y.
Sophomore Class.....	78

## FRESHMAN CLASS

BEECKMAN, FLORENCE LOUISE.....	(Mhtn) New York City
BELL, FLORENCE EMILY.....	(Q) New York City
BLACKBURN, LOUISA POWELL.....	Baltimore, Md.
BLAKE, ELLYN LOUISE.....	(R) New York City
BOYD, VIRGINIA TUCKER.....	(Mhtn) New York City
BREWSTER, ALICE DOROTHY.....	(Mhtn) New York City
BROWNE, MABEL EMMA.....	(Bklyn) New York City
BURR, EMILY THORP STEDMAN.....	Greenwich, Conn.
CHAPMAN, EMMA AUGUSTA.....	Jersey City, N. J.
CHIPPERFIELD, FAITH DE LA TOUR.....	(Bklyn) New York City

CONDIT, JESSIE PARSONS.....	East Orange, N. J.
DARLING, NELLIE OAKES.....	Stony Brook, L. I.
DONIGAN, ELIZABETH AMANDA.....	Mt. Vernon, N. Y.
DORSETT, LOVENIA ADELE.....	(Q) New York City
EASTMAN, LUCY PUTNAM.....	(Mhtn) New York City
ELLEAU, AUGUSTINE LOUISE.....	Newark, N. J.
ERNST, MATILDA.....	Huntington, L. I.
ERSTEIN, ROSE.....	(Mhtn) New York City
EVANS, ELIZABETH GRACE.....	(Mhtn) New York City
FAIRCHILD, RUTH DEANE.....	New Britain, Conn.
FARMER, MILDRED BLANCHE.....	New Rochelle, N. Y.
FONTAINE, MARIE LOUISE.....	(Mhtn) New York City
FOSHAY, FLORENCE ELIZABETH.....	Port Chester, N. Y.
FRANK, EDNA EMILIE.....	(Mhtn) New York City
FRANKFIELD, HELEN.....	(Mhtn) New York City
FREED, JULIA HEULAT.....	(Mhtn) New York City
FRICKE, WILLA MAY.....	(Mhtn) New York City
FRIED, ROSA.....	(Mhtn) New York City
GRABAU, MARY ANTIN (Mrs. A. W. GRABAU).....	(Mhtn) New York City
GREENWOOD, ELEANOR MAUD.....	(Mhtn) New York City
HAAN, HELEN ILONE.....	(Mhtn) New York City
HALL, CAROLINE DUMONT.....	Mt. Vernon, N. Y.
HART, ADELAIDE.....	(Mhtn) New York City
HASKELL, ALICE.....	Providence, R. I.
HAYNES, JESSIE ELIZABETH.....	(Q) New York City.
HERRMANN, SENTA.....	(Mhtn) New York City
HILL, AMELIA LEAVITT.....	(Mhtn) New York City
HOLDEN, ELEANOR SANFORD.....	Madison, N. J.
HOWARD, LILLIAN ALICE CATHERINE.....	(B) New York City
JAMES, BERTHA CLARKSON.....	Rahway, N. J.
JOHNSTON, MARJORIE.....	(Mhtn) New York City
KNOX, ETHEL MAY.....	(Mhtn) New York City
KOHUT, ELSIE.....	(Mhtn) New York City
LELAND, ABBY PORTER.....	Mechanicsville, N. Y.
LEWIS, BESSIE LOUISE.....	Mt. Vernon, N. Y.
LILIENTHAL, FLORENCE.....	(Mhtn) New York City
MACCOLL, GRACE BEATRICE.....	(Mhtn) New York City
MACCOLL, JEANNETTE.....	(Mhtn) New York City
MAHONY, ADELE MARGARET.....	(Mhtn) New York City
MARKS, BLANCHE FLORENCE.....	(Mhtn) New York City
MAYER, FANNY.....	(Mhtn) New York City
MAYO-SMITH, LUCIE.....	(Mhtn) New York City
MORGENTHAU, BEATRICE FRANCES.....	(Mhtn) New York City
MURTHA, MARY WASHBURN.....	(Mhtn) New York City
NEWLAND, ANNA MAY.....	(Mhtn) New York City
NIES, MINNIE ANTOINETTE.....	Paterson, N. J.
PADDOCK, JOSEPHINE.....	(Mhtn) New York City
PARKER, LAURA HILLIER.....	(Mhtn) New York City
PLATE, HAZEL HUDNALL.....	(Mhtn) New York City
POST, CATHARINE MARY.....	(Q) New York City
POST, ELIZABETH SMITH.....	(Q) New York City
PRATT, JOSEPHINE SOUTHWORTH.....	New Rochelle, N. Y.
PRICE, NINA MARGUERITE.....	(Mhtn) New York City
PURDUE, OLIVE CONDIT.....	East Orange, N. J.
RALPH, VIRGINIA.....	(Mhtn) New York City
REANEY, ELLA JANE.....	(Mhtn) New York City
RHEINSTEIN, ALICE MARION.....	(Mhtn) New York City
RICH, MABEL ELIZABETH WEISS.....	Mt. Vernon, N. Y.

ROHR, MADELINE DOROTHEA.....	(B) New York City
ROSENBERG, ALMA EMILIE.....	(Mhntn) New York City
ROSSBACH, IRMA.....	(Mhntn) New York City
RUSSELL, BELLE KATHARINE.....	(Bklyn) New York City
SCHLAGETER, FLORENCE.....	Paterson, N. J.
SCHMIDT, CLARA HELENE.....	Mt. Vernon, N. Y.
SCHUESSLER, HELENA.....	Closter, N. J.
SCHUESSLER, MATILDA.....	Closter, N. J.
SECOR, MABEL ROBERTS.....	Arlington, N. J.
SEELIGMAN, IRMA SCOTT.....	(Mhntn) New York City
SEWARD, BERTHA WOODWARD.....	Goshen, N. Y.
SHINN, NATALIE IDA.....	Pelham Manor, N. Y.
SIMONS, MARION LODER.....	Port Chester, N. Y.
SOMBORN, EDITH.....	(Mhntn) New York City
STAPP, FLORENCE MAY.....	Dunkirk, N. Y.
STIEBRITZ, ELSIE.....	(Q) New York City
STITT, EDNA WALMSLEY.....	(Mhntn) New York City
TAYLOR, VIRGINIA.....	East Orange, N. J.
TOMS, ELIZABETH IVERSON.....	(B) New York City
WATSON, ETHEL AGNES.....	Hackensack, N. J.
WELLS, MILDRED ADELE.....	East Orange, N. J.
WIESNER, LILLIAN ADELAIDE.....	(Mhntn) New York City
WILLIAMS, HELEN ISABEL.....	(B) New York City
WILCOX, HARRIET LESLIE.....	Yonkers, N. Y.
Freshman Class.....	92

## SPECIAL STUDENTS

BEACH, FLORENCE ESTHER.....	Ottawa, Kan.
BERNAYS, JUDITH.....	(Mhntn) New York City
BRACKETT, ANNA SPEED.....	(Mhntn) New York City
DURANT, AGNES LACY.....	(Mhntn) New York City
EARLE, RUTH.....	(Mhntn) New York City
EHRRICH, LILIAN IDA.....	(Mhntn) New York City
EINSTEIN, AMY.....	(Mhntn) New York City
EMERSON, HELENA TITUS.....	(Mhntn) New York City
FAWCETT, EDNA HAGUE.....	Washington, D. C.
FISHER, MAIZIE S. (Mrs. N. K. FISHER).....	(Mhntn) New York City
GANO, LINA E.....	(Mhntn) New York City
GLENN, HELEN MILDRED LEWIS.....	(Mhntn) New York City
GRANDIN, FRANCES BARBERIE.....	(Mhntn) New York City
GUILLAUME, FLORENCE DUDLEY.....	(Mhntn) New York City
HENDERSON, NATHALIE.....	(Mhntn) New York City
HERTS, RHODA LEONORA.....	(Mhntn) New York City
HOLBROOK, MARION GOODHUE.....	(Mhntn) New York City
JONES, MARGARET MOVERS.....	Chazy, N. Y.
LELAND, FANNIBELLE.....	(Mhntn) New York City
LOEW, FREDERICKA.....	(Mhntn) New York City
MACDONALD, EVELYN BLUNT.....	(Mhntn) New York City
MOEN, MARY WARREN.....	(Mhntn) New York City
NEUMAN, HENRIETTA.....	(Mhntn) New York City
NICHOLS, HELEN SLOCUM.....	(Mhntn) New York City
RICHARDSON, BERTHA JUNE.....	Cleveland, O.
ROSENBLATT, BELLA.....	(Mhntn) New York City
SEIBERT, JEANNETTE ROWLAND.....	(Bklyn) New York City
STEINHARDT, EDNA.....	(Mhntn) New York City
VON UNWERTH, FRIDA.....	Kansas City, Mo.
WARRENDER, JOSEPHINE ISABELLA GRAHAM.....	Newark, N. J.
WOOD, ELEANOR MARION.....	Upper Montclair, N. J.
Special Students.....	31

## MUSIC STUDENTS

ARMS, CLARA LOUISE.....	Chicago, Ill.
BOWDEN, HELEN ELIZABETH SNARDELL.....	Jersey City, N. J.
COE, CARLOTTA TOOTHE (Mrs. W. E. Coe).....	(Mhtn) New York City
COONS, ORRIE MAE.....	(Mhtn) New York City
COSTIKYAN, AROUSIAG.....	East Orange, N. J.
CROCKER, MARY SAMPSON.....	(Mhtn) New York City
ERVING, ELEANOR CECILIA.....	(Mhtn) New York City
FINCH, RUTH AFTON.....	Huntsville, Tex.
HALL, MARIE FREDERICA.....	(Bklyn) New York City
HAMMOND, BESSIE ELLEN.....	Bolivar, Pa.
JONES, MARION.....	(Mhtn) New York City
KEATING, ETHEL.....	Columbus, O.
KNOX, ELFLEDA ETHEL (Mrs. E. E. KNOX).....	(Mhtn) New York City
MOONEY, MARY AGNES.....	(Mhtn) New York City
MOORE, LOUISE MARGUERITE.....	(Mhtn) New York City
DE NEERGAARD, GOLLA BETZY.....	Karlsfält, Sweden
PRATEL, HARRIET.....	(Mhtn) New York City
REMICK, BERTHA.....	Sharon, Mass.
ROCHESTER, ANNA.....	Englewood, N. J.
RYSHPAN, BERTHA.....	(Mhtn) New York City
SINCLAIR, JEAN STUYVESANT.....	(Bklyn) New York City
SLOANE, MARION WALLACE.....	Newark, N. J.
UNDERHILL, MARGARET V.....	(Mhtn) New York City
VAN INGEN, HELEN.....	(Bklyn) New York City
VAN NEST, MARY VANDERPOOL.....	Glen Ridge, N. J.
WHITE, MARGARET CECILIA.....	Yonkers, N. Y.
Music Students.....	26

## SUMMARY

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	<hr/> 349
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	<hr/> 430

## TEACHERS COLLEGE

### TRUSTEES

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SPENCER TRASK, *Chairman*

NEWBOLD MORRIS, *Secretary*

MISS GRACE H. DODGE, *Treasurer*

WILLIAM F. BRIDGE

SETH LOW, LL.D.

GEORGE W. VANDERBILT

CHARLES W. HARKNESS

REV. DAVID H. GREER, D.D.

MISS ANNIE B. JENNINGS

PETER B. OLNEY

JAMES SPEYER

V. EVERIT MACY

ARCHER M. HUNTINGTON, A.M.

B. TALBOT B. HYDE

JAMES E. RUSSELL, Ph.D.

JOSEPH MILBANK

MRS. FREDERICK F. THOMPSON

NICHOLAS MURRAY BUTLER, LL.D.

### Officers of Administration

NICHOLAS MURRAY BUTLER, LL.D.,

President of the University

JAMES EARL RUSSELL, Ph.D.,

Dean

SAMUEL TRAIN DUTTON, A.M.,

Superintendent of the Teachers College Schools

JOHN FRANCIS WOODHULL, Ph.D.

Professor in charge of Buildings and Grounds

THOMAS D. WOOD, M.D.,

College Physician

CLYDE FURST, A.M.,

Secretary

LUCETTA DANIELL,

Directress

ELIZABETH G. BALDWIN,

Librarian

GEORGE S. KELLOGG,

Curator of the Educational Museum

MARY C. BRUSH,

Registrar

ISABELLE L. PRATT,

Secretary to the Dean

## REPRESENTATIVES IN UNIVERSITY COUNCIL

JAMES EARL RUSSELL, Ph.D., *ex-officio*  
 PAUL MONROE, Ph.D. (*term expires 1905*)

## The Faculty

NICHOLAS MURRAY BUTLER, LL.D. . . . . *President*  
 JAMES EARL RUSSELL, Ph.D. . . . . *Dean and Professor of Education*  
 JOHN FRANCIS WOODHULL, Ph.D. . . . . *Professor of Physical Science*  
 JAMES MCKEEN CATTELL, Ph.D. . . . . *Professor of Psychology*  
 FRANKLIN THOMAS BAKER, A.M. . . . . *Professor of English Language and Literature*  
 \*EDWARD HOWARD CASTLE, A.M. . . . . *Professor of History*  
 \* RICHARD ELWOOD DODGE, A.M. . . . . *Professor of Geography*  
 HELEN KINNE . . . . . *Professor of Domestic Science*  
 MARY DUNCAN RUNYAN . . . . . *Professor of Kindergarten*  
 ALFRED VANCE CHURCHILL, A.M. . . . . *Professor of Art*  
 FRANK MORTON McMURRY, Ph.D. . . . . *Professor of Elementary Education*  
 CHARLES RUSSELL RICHARDS, B.S. . . . . *Professor of Manual Training*  
 SAMUEL TRAIN DUTTON, A.M. . . . . *Professor of School Administration*  
 GONZALEZ LODGE, Ph.D., LL.D. . . . . *Professor of Latin and Greek*  
 DAVID EUGENE SMITH, Ph.D. . . . . *Professor of Mathematics*  
 THOMAS DENISON WOOD, Ph.D. . . . . *Professor of Physical Education*  
 PAUL MONROE, Ph.D. . . . . *Professor of the History of Education*  
 JULIUS SACHS, Ph.D. . . . . *Professor of Secondary Education*  
 FREDERICK REMSEN HUTTON, Ph.D. . . . . *Professor of Mechanical Engineering*  
 FRANCIS ERNEST LLOYD, A.M. . . . . *Adjunct Professor of Biological Science*  
 CHARLES EARL BIKLÉ, A.M. . . . . *Adjunct Professor of Mathematics*  
 MARY SCHENCK WOOLMAN . . . . . *Adjunct Professor of Domestic Art*  
 EDWARD LEE THORNDIKE, Ph.D. . . . . *Adjunct Professor of Genetic Psychology*  
 CHARLES HUBERT FARNSWORTH . . . . . *Adjunct Professor of Music*  
 VIRGIL PRETTYMAN, A.M. . . . . *Principal of the Horace Mann High School*

## Other Officers and Instructors

WILLIAM SMITH ROBINSON . . . . . *Instructor in Drawing and Painting*  
 MARY ROGERS . . . . . *Instructor in Wood-Carving*  
 GEORGE PHILIP KRAPP, Ph.D. . . . . *Instructor in English*  
 CHARLES PRENTICE BENNS, M.E. . . . . *Instructor in Machine Work*  
 \*ELIJAH WILLIAM BAGSTER-COLLINS, A.M. . . . . *Instructor in German*  
 OSWALD RUDOLF EKLÖF . . . . . *Instructor in Wood-Working*  
 LOUIS ROUILLION, A.M. . . . . *Instructor in Mechanical Drawing*  
 CHARLES CONRAD SLEFFEL . . . . . *Instructor in Forging*  
 CHARLES WILLIAM WEICK, B.S. . . . . *Instructor in Wood-Working*  
 MAURICE ALPHEUS BIGELOW, Ph.D. . . . . *Instructor in Biological Science*

\* Absent on leave.

ARTHUR CHARLES HOWLAND, Ph.D.....	<i>Instructor in History</i>
CAROLINE GERALDINE O'GRADY.....	<i>Instructor in Kindergarten</i>
HERBERT VAUGHAN ABBOTT, A.B.....	<i>Instructor in English</i>
LOUISE CHRISTINE SUTHERLAND.....	<i>Instructor in Kindergarten</i>
ISABEL COBB FRENCH.....	<i>Instructor in Kindergarten</i>
JOHN A. MACVANNEL, Ph.D.....	<i>Instructor in History and Principles of Education</i>
LOUIS GASPARD MONTÉ.....	<i>Instructor in Fine Arts</i>
MAUD MARCH.....	<i>Instructor in Physical Education</i>
ADA M. WATTERSON, A.M.....	<i>Tutor in Biological Science</i>
CLARA BARBARA KIRCHWEY.....	<i>Tutor in Geography</i>
NAOMI NORSWORTHY.....	<i>Tutor in Educational Psychology</i>
MARY L. TUTTLE.....	<i>Tutor in Domestic Science</i>
MARY B. HYDE.....	<i>Tutor in Manual Training</i>
ALETTA VAN WYCK SCHENCK.....	<i>Assistant in Domestic Art</i>
MATILDA GARRETSON REA.....	<i>Assistant in Domestic Art</i>
ANNA LOWELL ALLINE.....	<i>Assistant in Hospital Economics</i>
CLARA PENISTON.....	<i>Assistant in Domestic Art</i>
CAROLINE E. MEHAN.....	<i>Assistant in Voice Culture</i>
JEANNETTE R. SEIBERT, A.B.....	<i>Assistant in Educational Psychology</i>
HELEN G. NOBLE.....	<i>Assistant in Domestic Art</i>
ELIZABETH SAGE.....	<i>Assistant in Domestic Art</i>
JESSE D. BURKS, Ph.B.....	<i>Assistant in Elementary Education</i>
ELIZA BENTON.....	<i>Assistant in Domestic Science</i>
RICHARD T. HOLBROOK, Ph.D.....	<i>Assistant in French</i>
WILHELM BRAUN, A.B.....	<i>Assistant in German</i>

### Lecturers

HERMAN T. VULTÉ, Ph.D.....	<i>Lecturer in Household Chemistry</i>
LUCY M. SALMON, A.M.....	<i>Lecturer in History</i>
LEOPOLD BAHLSEN, Ph.D.....	<i>Lecturer in Methods of Teaching German and Elementary French</i>
MRS. ELLEN H. RICHARDS.....	<i>Lecturer in Domestic Science</i>

## TEACHERS COLLEGE SCHOOLS

### Officers of Administration

JAMES E. RUSSELL, Ph.D.,	Dean
SAMUEL T. DUTTON, A.M.,	Superintendent

### Horace Mann Schools

VIRGIL PRETTYMAN, A.M.....	<i>Principal of High School</i>
JULIA HELEN WOHLFARTH.....	<i>Principal of Elementary School</i>
MARY DUNCAN RUNYAN.....	<i>Principal of Kindergarten</i>
MILDRED WINSLOW DEWEY, A.B.....	<i>Secretary</i>
MARION ROOT PRATT.....	<i>Secretary to the Superintendent</i>
ANNIE LEONARD MUZZY.....	<i>Assistant Librarian</i>

## Speyer School

FRANK MORTON McMURRY, Ph.D.	Supervisor
JESSE D. BURKS	Acting Principal
AMY SCHÜSSLER	Head Teacher in charge of Fourth and Fifth Grades
CORNELIA HALL	Teacher in charge of Second and Third Grades
MYRA KELLY	Teacher in charge of First Grade
HARRIETTE MILLS	Teacher in charge of Kindergarten

## Instructors and Assistants in Horace Mann Schools

EUGÉNIE MENUT	French
ELLEN YALE STEVENS, Ph.B.	English
MAY BELLE VAN ARSDALE	Physics and Chemistry
*KATHARINE MORE COCHRANE, A.B.	Greek and Latin
CHARLES MCCOY BAKER, A.B.	Latin
HARRIET A. HITCHCOCK	Fine Arts
ELIZA RHEES BUTLER, A.B.	History
LUCY HESS WEISER	Manual Training
ROLAND HUGH WILLIAMS, B.S.	Mathematics
KATE STUART ANTHONY	Domestic Art
FRANCES ELBERTINE McRAE	Physical Science
LAURA BRAINARD WHITTEMORE	Domestic Science
MARY BROWNSON GILLMORE, Ph.B.	History
CLIFFORD UPTON	Mathematics
EDITH RAND, A.B.	Biology
ALLAN ABBOTT	English
THOMAS J. BROWNE	Physical Education
ANDREW D. KENNEDY	Fine Arts
MARIE RUEF HOFER	Music
MARSHALL B. EVANS, Ph.D.	German
WILLIAM C. RICHARDSON	Greek
IDA ELIZABETH ROBBINS	Fourth Grade
EVELYN BATCHELDER	Second Grade
SUSAN ADELE LATHROP	Sixth Grade
*CAROLINE WOODBRIDGE HOTCHKISS	Seventh Grade
WINONA MARION PRATT	Fifth Grade
MARY EDWARDS CALHOUN	Seventh Grade
MARIAM CHARLOTTE WINCHESTER	First Grade
MARY FREDERIKA KIRCHWEY	Sixth Grade
MARY HAMMET LEWIS	Third Grade
EDITH CORNELIA BARNUM	Second Grade
FRANK ALVAH PARSONS	Eighth Grade
LAURA BELLE UNDERHILL	Fifth Grade
KATHARINE WELLS	Second Grade
LILLIAN EMILY ROGERS	Seventh Grade

\*Absent on leave.



MARY G. PEABODY.....	<i>Sixth Grade</i>
FLORENCE M. MARSHALL.....	<i>Fourth Grade</i>
ELIZABETH M. WHELOCK.....	<i>Eighth Grade</i>
IRENE A. HACKETT.....	<i>Seventh Grade</i>
BESSIE M. COBURN.....	<i>Fifth Grade</i>
BELLE R. PARSONS, B.S.....	<i>Assistant in Physical Education</i>
JAMES JARDINE.....	<i>Assistant in Physical Education</i>
MADLINE BROWN.....	<i>Assistant in Physical Education</i>
ELIZABETH BURCHENAL.....	<i>Assistant in Physical Education</i>
DARIUS EATMAN, A.M.....	<i>Assistant in English</i>
WILLIAMETTA ORTON NASH.....	<i>Assistant in Elementary School</i>
ELSA BEHR, B.S.....	<i>Assistant in Mathematics</i>
ANNIE M. BROOKS.....	<i>Assistant in Latin</i>
ELIZABETH C. CODDINGTON.....	<i>Assistant in Latin</i>
KATHARINE ARMSTRONG.....	<i>Assistant in History</i>
HENRIETTA CAREY, B.S.....	<i>Assistant in Kindergarten</i>

## GENERAL STATEMENT

Teachers College, founded in 1888, and chartered by the Regents of the University of the State of New York in 1889, became, in 1898, a part of the educational system of Columbia University. The President of Columbia University is President, *ex-officio*, of Teachers College, and the College is represented in the University Council by its Dean and an elective representative of its Faculty. The College meanwhile maintains its separate corporate organization, and its Board of Trustees continue to assume entire financial responsibility for its maintenance.

Teachers College is the professional school of Columbia University for the study of education and the training of teachers, taking academic rank with the Schools of Law, Medicine, and Applied Science. It affords opportunity, both theoretical and practical, for the training of teachers of both sexes for elementary and secondary schools, of specialists in various branches of school work, and of school principals, supervisors, and superintendents.

The following courses of study are offered by Teachers College:

1. A collegiate course of two years. This course may be entered by any student who, having satisfied the requirements for admission to the undergraduate colleges of Columbia University, desires to direct his college studies more specifically towards teaching. This course, followed by a two-years' professional course, leads to the degree of Bachelor of Science.

2. Two-year professional courses leading to the Bachelor's Diploma of Teachers College: for (a) teaching specified subjects in secondary schools; (b) teaching in elementary schools or in kindergartens; (c) teaching Fine Arts, Music, Domestic Art, Domestic Science, and Manual Training.

Candidates for admission to course *a*, must have completed the sophomore year in an approved college; to course *b*, the sophomore year in an approved college, or graduation from an approved normal school or teachers' training school; to course *c*, at least two years of collegiate study, technical training, or experience in teaching, after the completion of a satisfactory course in an approved secondary school.

3. Graduate courses of at least one year leading to the Master's Diploma in any department of the College. Candidates for admission to these courses must have received a Bachelor's Diploma from Teachers College, or an equivalent collegiate and professional education in an approved institution of learning.

4. Graduate courses of at least two, ordinarily of three, years, leading to the Doctor's Diploma in certain departments of the College. The conditions for entrance to these courses are the same as those for the course leading to the Master's Diploma.

The courses of study for teaching in secondary schools are so arranged that undergraduate students of Columbia College and of Barnard College, and students who are prepared to enter the junior class of either of these colleges, may, if they desire, obtain the diploma of Teachers College at the time of receiving their degree of Bachelor of Arts. In like manner, qualified students of Teachers College may obtain their diploma and the degree of Bachelor of Science at the same time.

Certain courses in Teachers College may be counted in partial fulfillment of the requirements for the university degrees of Master of Arts and Doctor of Philosophy. Candidates for the degree of Doctor of Philosophy who present Education as a minor subject may arrange their work in such a way as to secure at the same time a Bachelor's or Master's Diploma from Teachers College. Graduate students of Teachers College who conform to the regulations of the University Council may pursue at the same time courses leading to both a higher diploma and a higher degree.

The Horace Mann School and the Speyer School, which include kindergarten, elementary, and secondary classes, are maintained by Teachers College as schools of observation and demonstration. They offer unexcelled advantages for the investigation of educational problems and for the study of the practical work of teaching.

### Buildings and Equipment

The buildings of Teachers College and of the Horace Mann School are situated on West 120th and 121st Streets, between Amsterdam Avenue and Broadway, opposite the northern boundary of the University grounds.

The Main Building of the College, containing, in addition to its equipment for administration and instruction, the Bryson Library of twenty thousand volumes and the Educational Museum, is adjoined by the

Milbank Memorial Building, containing the Memorial Chapel; and by the Macy Manual Arts Building, equipped for the departments of Manual Training and Fine Arts. Buildings for the Speyer School and for the Department of Physical Education are in process of erection. Whittier Hall, the dormitory for the women students of the University, is under the control of Teachers College.

## REGISTER OF STUDENTS, 1902-1903

### Graduate Students

#### Candidates for the Doctor's Degree and Diploma

- BALDWIN, ARTHUR POND.....(Mhnt) New York City  
 College of the City of New York, A.B., 1876.  
 Columbia University, A.M., 1901.  
 Teachers College, Secondary Diploma, 1901.  
*Education, Sociology.*
- BROOKS, JOHN LEE.....(Mhnt) New York City  
 Southwestern University, A.M., 1893.  
 Drew Theological Seminary, B.D., 1900.  
*Education.*
- BUNNELL, ELIZABETH HANKINSON.....Tunkhannock, Pa.  
 Mt. Holyoke College, A.B., 1894.  
 Columbia University, A.M., 1902.  
 Teachers College, Master's Diploma, 1902.  
*Education, Latin.*
- CARSS, ELIZABETH.....(Mhnt) New York City  
 Normal College, New York City, A.B., 1893.  
 Cornell University, Ph.B., 1895.  
 Teachers College, Diploma, 1897.  
*Education, Botany, Zoology.*
- COFFEE, RUDOLPH ISAAC.....Oakland, Cal.  
 Columbia University, A.B., 1900.  
*Education, Hebrew.*
- COLBURN, HARRISON S.....(Mhnt) New York City  
 Purdue University, B.S., 1900.  
 Columbia University, A.M., 1902.  
 Teachers College, Master's Diploma, 1902.  
*Education, Sociology.*
- EARLE, EDWIN LYEEL.....(Mhnt) New York City  
 New Jersey Theological Seminary, A.B., 1892.  
 Roman University, Ph.D., 1902.  
 Teachers College, Master's Diploma, 1902.  
*Education, Psychology.*
- FARRINGTON, FREDERIC ERNEST.....(Mhnt) New York City  
 Harvard University, A.B., 1894.  
 Columbia University, A.M., 1902.  
*Education, Psychology.*
- FOWLER, WILSON WARREN.....(R) New York City  
 Rutgers College, B.S., 1897.  
 Columbia University, A.M., 1898.  
*Education, Philosophy, Psychology.*
- FUERST, SIDNEY MARSDEN.....(Mhnt) New York City  
 Columbia University, A.B., 1901; A.M., 1902.  
*Education, English.*
- GAMMON, EDWARD MONTAGUE.....Rome, Ga.  
 University of Georgia, A.B., 1895.  
 Columbia University, A.M., 1902.  
 Teachers College, Master's Diploma, 1902.  
*Education, Anthropology.*

- GREENE, FREDERIC LOWELL.....(Mhntn) New York City  
 Boston University, B.S., 1894.  
 Columbia University, A.M., 1899.  
 Teachers College, Higher Diploma, 1902.  
*Education, History.*
- KENT, ERNEST BECKWITH.....Indianapolis, Ind.  
 Iowa State College, A.B., 1894.  
 Columbia University, A.M., 1901.  
*Education, Psychology, Manual Training.*
- KING, ALBERT EDWARD.....(Bklyn) New York City  
 Harvard University, A.B., 1897; A.M., 1898.  
*Education, Mechanics.*
- REYNOLDS, JAMES JOSEPH.....(Mhntn) New York City  
 College of the City of New York, B.S., 1893.  
 New York University, LL.B., 1897.  
 Columbia University, A.M., 1902.  
 Teachers College, Master's Diploma, 1902.  
*Education, Psychology, English.*
- \* SHAW, IRA DENNISON.....South Northfield, Vt.  
 State Normal School, Randolph, Vt., 1890.  
 Oberlin College, A.B., 1898.  
*Education, Philosophy.*
- SMITH, ALEXANDER GODFREY.....(Bklyn) New York City  
 Columbia University, A.B., 1900; A.M., 1902.  
 Teachers College, Secondary Diploma, 1900; Master's Diploma, 1902.  
*Education, English, Psychology.*
- SMITH, WILLIAM WALTER.....(Mhntn) New York City  
 Princeton University, A.B., 1889; A.M., 1892.  
 General Theological Seminary, 1892.  
 Columbia University, M.D., 1895.  
*Education, Psychology.*
- SWIFT, FLETCHER HARPER.....(Bklyn) New York City  
 Dartmouth College, A.B., 1898.  
*Education, Church History.*
- \* THOMAS, WINFIELD SCOTT.....Petaluma, Cal.  
 Johns Hopkins University, A.B., 1899.  
*Education, Psychology.*
- TUCKER, LOUISE EMERY.....(Bklyn) New York City  
 Adelphi College, A.B., 1900.  
 Columbia University, A.M., 1901.  
*Education, Philosophy.*

### Candidates for the Master's Degree and Diploma

- ABBOTT, FREDERICK BANCROFT.....Providence, R. I.  
 College of Emporia, B.S., 1900; M.S., 1902.  
*Education, Philosophy, Mechanical Engineering.*
- AUSTIN, ISABELLA.....Minneapolis, Minn.  
 University of Minnesota, B.L., 1895.  
 State Normal School, Winona, Minn., 1897.  
*Education, Psychology.*
- † BAYNE, STEPHEN FIELDING.....(Mhntn) New York City  
 College of the City of New York, B.S., 1898.  
*Education, English.*
- † BELLOWS, RUSSELL HEACOCK.....Fort Plain, N. Y.  
 State Normal College, Albany, N. Y., 1893.  
 Columbia University, B.S., 1902.  
 Teachers College, Master's Diploma, 1902.  
*Education, English.*

\* Candidate for the Ph.D. degree only.

† Candidate for the A.M. degree only.

- BROWN, LIBERTA ROSS.....Forest Grove, Ore.  
Pacific University, A.B., 1899.  
*Education, Latin.*
- BURCHARD, ANNA TERRESSA.....Hamilton, N. Y.  
Vassar College, A.B., 1897.  
*Education, Mathematics.*
- BURRITT, BAILEY BARTON.....Chili Station, N. Y.  
University of Rochester, A.B., 1902.  
*Education, Philosophy.*
- CRAIG, ARCHIBALD GORDON.....Brookville, Pa.  
Western University of Pennsylvania, Ph.B., 1900.  
*Education, Physical Science.*
- CRAMER, MARY EVA.....Portland, Conn.  
Wesleyan University, Ph.B., 1895.  
*Education, English.*
- DEAN, PHILIP REDFIELD.....(Mhtn) New York City  
Harvard University, A.B., 1886.  
*Education.*
- DEEM, MARY GOODRICH.....Sabina, O.  
Hillsboro College, M.C.L., 1886.  
*Education, Psychology.*
- †DENBIGH, JOHN HALLIDAY.....(Mhtn) New York City  
Oxford University, A.B., 1891; A.M., 1895.  
*Education.*
- DORCAS, HERBERT CLIFFORD.....Iowa City, Ia.  
Iowa State University, Ph.B., 1895.  
*Education, Psychology, Philosophy.*
- FAHS, SOPHIA LYON.....(Mhtn) New York City  
Wooster University, A.B., 1897.  
*Education.*
- FILFUSS, NATHANIEL.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Education, Economics, Philosophy.*
- FOSTER, FREDERICK JAMES.....(Mhtn) New York City  
College of the City of New York, B.S., 1891.  
*Education, Physics.*
- †GOLDRICH, LEON WOLF.....(Mhtn) New York City  
College of the City of New York, B.S., 1894.  
New York University, LL.B., 1897.  
*Education.*
- GOULD, JOHN WESLEY.....(Bklyn) New York City  
Columbia University, A.B., 1900.  
*Education, Psychology.*
- GROUT, LEON EVERETT.....Newfane, Vt.  
University of Vermont, B.S., 1902.  
*Education, Botany, Zoology.*
- †GUYER, CAROLINE CLARKSON.....Trenton, N. J.  
Smith College, A.B., 1881.  
*Education.*
- HADLEY, SARAH LOUISE.....South Canterbury, Conn.  
Wellesley College, A.B., 1896.  
*Education, History.*
- HALLIGAN, THOMAS COOPER.....(Mhtn) New York City  
College of the City of New York, B.S., 1890.  
New York University, LL.B., 1895.  
*Education, English.*

† Candidate for the A.M. degree only.

- HENSON, CLARENCE CHERRINGTON.....Clay, O.  
Ohio University, A.B., 1899; A.M., 1901.  
*History, Psychology, Sociology.*
- † HUNTINGTON, SUSAN DICKINSON.....Norwich, Conn.  
Wellesley College, A.B., 1900.  
*Education, Psychology.*
- JENKS, ELIJAH, JR.....(Br) New York City  
College of the City of New York, B.S., 1889.  
*Education, English.*
- KNAPP, THAD JOHNSON.....Arlington, N. J.  
University of Michigan, Ph.B., 1898.  
*Education.*
- KNIGHT, ARCHIBALD SMITH.....Hamilton, N. Y.  
Colgate University, A.B., 1892; A.M., 1895.  
*Education, Greek.*
- † KNOX, THOMAS HARRY.....(Mhntn) New York City  
College of the City of New York, B.S., 1888.  
*Education, English.*
- LANE, CHRISTOPHER JOSEPH.....Pearl River, N. Y.  
College of St. Francis Xavier, A.B., 1891.  
*Education.*
- † LAWYER, LOUIS ROSSELL.....(Mhntn) New York City  
College of the City of New York, B.S., 1896.  
*Education, English.*
- LONGACRE, GEORGE FORCE.....Yerkes, Pa.  
Ursinus College, A.B., 1896.  
*Education, History.*
- † LUDWIG, AUGUSTUS.....(Mhntn) New York City  
College of the City of New York, B.S., 1897.  
*Education.*
- † MCGEE, JOHN D'ARCY.....(Br) New York City  
Laval University, B.L., 1890.  
*Education, Latin.*
- MITCHELL, EDITH ROBERTS.....Asbury Park, N. J.  
Teachers College, Kindergarten Diploma, 1899.  
*Education.*
- † MOON, ALPHEUS WILBERFORCE.....Hardingville, N. J.  
Indiana University, A.B., 1895.  
*Education, Psychology.*
- † MORRISEY, MICHAEL JOSEPH ALOYSIUS.....(Mhntn) New York City  
College of St. Francis Xavier, A.B., 1885.  
*Education.*
- † MOSES, JOSEPH.....(Mhntn) New York City  
University of Cincinnati, A.B., 1894.  
Hebrew Union College, 1894.  
*Education, German.*
- O'DONNELL, JAMES A.....(Mhntn) New York City  
College of the City of New York, B.S., 1886.  
*Education.*
- PALEY, HERMAN E.....(Mhntn) New York City  
College of the City of New York, A.B., 1902.  
*Education, History.*
- PARKER, SAMUEL CHESTER.....Cincinnati, O.  
University of Cincinnati, A.B., 1901.  
*Education, Psychology.*

† Candidate for the A.M. degree only.

- PATRI, ANGELO.....(Mhntn) New York City  
College of the City of New York, A.B., 1897.  
*Education, English.*
- PAYNE, BRUCE RYBURN.....Durham, N. C.  
Trinity College, Durham, N. C., A.B., 1896; A.M., 1902.  
*Education, Philosophy.*
- PILGRIM, YANCEY CALHOUN.....Belleville, N. J.  
Lafayette College, Ph.B., 1889; M.S., 1892.  
*Education, English.*
- POTTER, JEFFERSON ROWLAND.....Paterson, N. J.  
Brown University, A.B., 1877; A.M., 1888.  
Clark University, 1890-1891.  
*Education.*
- PUGLIESE, ANTHONY JULIAN.....(Mhntn) New York City  
College of the City of New York, A.B., 1897.  
*Education, English.*
- RICHARDSON, BERTHA JUNE.....Cleveland, O.  
Smith College, A.B., 1901.  
*Education.*
- ROOF, MARCUS J.....Ridgefield, N. J.  
Heidelberg College, O., A.B., 1893; A.M., 1896.  
Theological Seminary, New Brunswick, N. J., B.D., 1896.  
*Education, English.*
- SECREST, STELLA WARREN.....Chillicothe, O.  
Ohio Wesleyan University, A.B., 1893.  
*Education, English, Mathematics.*
- SLAVIK, WILLIAM CLARENCE.....(Mhntn) New York City  
College of the City of New York, B.S., 1898.  
*Education, English.*
- † SMYTHE, SAMUEL, JR.....(Mhntn) New York City  
College of the City of New York, B.S., 1900.  
*Education, Mathematics.*
- SPRINGMEYER, CHARLES EDWIN.....(Mhntn) New York City  
College of the City of New York, A.B., 1897.  
*Education, English.*
- STREETER, STELLA GEORGIANA.....Cummington, Mass.  
Smith College, B.L., 1898.  
*Education, Botany, Zoology.*
- SWICK, DAVID A.....(Mhntn) New York City  
College of the City of New York, B.S., 1899.  
*Education, Comparative Literature.*
- THOMAS, WENDELL MARSHALL.....Cranford, N. J.  
Ohio Wesleyan University, A.B., 1893.  
*Education.*
- THOMAS, WILLYS EVERMAN.....Cranford, N. J.  
Ohio Wesleyan University, A.B., 1897.  
*Education, English.*
- VIMONT, MARIE LOUISE.....Des Moines, Ia.  
Northwestern University, B.S., 1901.  
*Education, Psychology, Biology.*
- WOODHULL, MARY CALDWELL.....Craigsville, N. Y.  
Columbia University, A.B., 1900.  
*Education, History.*
- WOOLF, HENRY.....(Mhntn) New York City  
College of the City of New York, B.S., 1895.  
*Education, History.*
- ZIEGLER, CHARLES EDWARD.....(Mhntn) New York City  
College of the City of New York, A.B., 1898.  
*Education, English.*

† Candidate for the A.M. degree only.



## Candidates for a Higher Diploma \*

- ‡ BLISS, DON CARLOS.....Kearney, N. J.  
Dartmouth College, A.B., 1892; A.M., 1894.  
*Education.*
- BODLER, JOHN WILLIAM WALTER.....(Mhtn) New York City  
State Normal School, Mansfield, Pa., M.E., 1890.  
Lafayette College, Ph.B., 1896.  
*Education.*
- GOADBY, ARTHUR.....(Mhtn) New York City  
Harvard University, 1885-1886.  
*Education, English.*
- HARRIS, ELIZABETH.....(Mhtn) New York City  
Normal College, New York City, 1884.  
*Education.*
- HAVILAND, EMMA COTHEAL.....(Mhtn) New York City  
Normal College, New York City, 1878.  
*Education.*
- ‡ JAMESON, CHARLES B.....(Mhtn) New York City  
College of the City of New York, A.B., 1896.  
*Education, English History.*
- KILPATRICK, VAN EVRIE.....(Mhtn) New York City  
Syracuse University, A.B., 1891; A.M., 1894.  
*Education.*
- RABENORT, WILLIAM LOUIS.....Paterson, N. J.  
State Normal School, Trenton, N. J., 1890.  
*Education.*
- SILBERBERG, BETTY.....(Mhtn) New York City  
*Education.*

## Professional Students Candidates for a Bachelor's Diploma

## SENIOR CLASS

- § ABRAMS, EFFIE MURRAY (*Music*).....Hartford, Conn.
- § ADDICOTT, JAMES EDWIN (*Manual Training*).....San José, Cal.  
State Normal School, San José, Cal., 1890.
- || ADDOMS, JESSIE ALICE (*Latin*).....(Bklyn) New York City
- § ALLIS, LUELLA VIRGINIA (*English*).....Syracuse, N. Y.  
State Normal School, Brockport, N. Y., 1895.
- APGAR, ADA COLLINS (*Kindergarten*).....Trenton, N. J.
- ARMAND, LOUIS JULES (*Fine Arts*).....(Mhtn) New York City
- ATWATER, CHARLES OGDEN (*Manual Training*).....New Haven, Conn.
- \*\* AUERBACH, MATILDA.....(Mhtn) New York City  
Teachers College, Elementary Diploma, 1899.
- § BAILEY, CHARLES HENRY (*Manual Training*).....Iowa City, Ia.  
Iowa State University, B.S., 1895.
- ‡ BAILEY, HELEN WINONA (*Latin, Mathematics*).....Leadville, Col.  
Colorado College, Colorado Springs, Col., A.B., 1896.
- BARRON, HONORA AGNES (*Domestic Art*).....(Mhtn) New York City
- || BASSETT, JAMES, JR. (*Mathematics*).....(Mhtn) New York City
- BAWDEN, WILLIAM THOMAS (*Manual Training*).....Buffalo, N. Y.  
Denison University, 1896.

\* Students in this list were admitted prior to the adoption of the new regulations, November, 1902, and are permitted to retain their original rating.

‡ Also a candidate for the A.M. degree.

|| Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree.

\*\* Candidate for the B.S. degree only.

- \*\* BELLER, WILHELMINA CATHARINE.....(Mhtn) New York City Teachers College, Higher Diploma, 1902.
- BERTHOLF, KATHERINE ILIFF (*Manual Training*).....Nyack, N. Y.
- BLACKFORD, GAY ROBERTSON (*Elementary Teaching*).....Abingdon, Va.
- BLANFORD, MARY ESTHER (*Domestic Science*).....Los Angeles, Cal.
- BOSTWICK, SARA WELLS (*Kindergarten*).....(Bklyn) New York City
- § BRIDGMAN, ANNE TOWNSEND (*Elementary Teaching*).....(Mhtn) New York City
- BRINCKERHOFF, ANNIE M. (*Latin*).....Mt. Vernon, N. Y. Vassar College, A.B., 1895.
- † BROWN, JESSIE LOUISE PRESTON (*History*).....(Mhtn) New York City Columbia University, A.B., 1902.
- CARLETON, BESSIE GERTRUDE (*French*).....Hartford, Conn. Vassar College, A.B., 1902.
- § CHAMBERLAIN, ARTHUR HENRY (*Manual Training*).....Pasadena, Cal. Cook County Normal School, Chicago, Ill., 1892.
- CHAMBERS, MARY DAVOREN (*Domestic Science*).....(Bklyn) New York City Pratt Institute, 1898.
- § CHEDSEY, MARY COE (*Biology*).....Yonkers, N. Y. Normal College, New York City, A.B., 1898.
- † CLARK, LAURA SOPHRONIA (*Secondary Teaching*).....Randolph, Vt. Middlebury College, Middlebury, Vt., B.S., 1894.
- CLEAVELAND, WALTER AVERY (*Manual Training*).....Stamford, Conn. Institute of Technology, Boston, Mass., 1894-1897.
- § CLOSS, RACHAEL EVALINE (*Elementary Teaching*).....Rose, N. Y.
- || COHEN, HELEN LOUISE (*English*).....(Mhtn) New York City
- ‡ COLTON, ELIZABETH AVERY (*English*).....Campbellsville, Ky. Statesville College, B.L., 1889.
- Mt. Holyoke College, 1891-1893.
- COLTON, LITCHFIELD (*Manual Training*).....Exeter, N. H.
- CONSALUS, FRANCES HAMILTON (*Manual Training*).....(Mhtn) New York City
- COOLEY, ANNA MARIA (*Domestic Art*).....(Mhtn) New York City Normal College, New York City, 1893.
- DANIELS, AMY LOUISE (*Domestic Science*).....Newton, Mass. Boston Normal School of Household Arts, 1897.
- || DANIELS, HARRIET McDONAL (*Mathematics*).....Clinton, N. Y.
- DARLING, ELEANOR LOUISE (*Kindergarten*).....Rye, N. Y.
- DAY, HELEN MARION (*Domestic Science*).....St. Louis, Mo.
- ‡ DE BARDELEBEN, MARY CHRISTINE (*History*).....La Place, Ala. Normal College, Livingston, Ala., 1898.
- University of Alabama, A.B., 1901.
- \*\* DOWLING, RUTH ELIZABETH.....Yonkers, N. Y. Teachers College, Elementary Diploma, 1898.
- DUFFEY, LILLIAN ROBERTS (*Elementary Teaching*).....(Bklyn) New York City
- DURANT, EDITH (*English*).....(Mhtn) New York City Columbia University, A.B., 1902.
- ECKHARDT, CLARA ELIZABETH (*Fine Arts*).....Gilroy, Cal.
- ‡ ELKUS, SAVILLA ALICE (*Mathematics*).....(Mhtn) New York City Normal College, New York City, A.B., 1893.
- ENGELBREKT, SELMA CHARLOTTE (*Fine Arts*).....New Rochelle, N. Y.
- † EVANS, LOLA MAY (*English*).....Washington, D. C. Columbian University, A.B., 1902.
- ‡ EWING, EDITH CLAYPOOLE (*English*).....(Mhtn) New York City

‡ Also a candidate for the A.M. degree.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

\*\* Candidate for the B.S. degree only.

- FREEBORN, ELIZABETH JOHNSON (*Kindergarten*).....Warren, R. I.  
 ‡ FRENCH, HELEN TOPPING (*English*).....(Bklyn) New York City  
 Oberlin College, A.B., 1898.
- FROST, HELEN VINCENT (*Elementary Teaching*).....Mt. Vernon, N. Y.  
 State Normal School, New Haven, Conn., 1890.
- § GARNER, PETER PARLEY (*English, Mathematics*).....Macon, Miss.  
 § GILCHRIST, ANNA MONROE (*Domestic Science*).....Port Deposit, Md.  
 Maryland College for Women, 1893-1895.  
 Bucknell University, 1895-1896.
- § GLANTON, LOUISE PHILLIPS.....Newman, Ga.  
 ‡ GORDON, GERALD (*English*).....Denville, N. J.  
 Lafayette College, A.B., 1895; A.M., 1898.
- GREENE, ETHEL ALICE (*Fine Arts*).....(Mhntn) New York City  
 GREEVER, ALBERT SIDNEY (*English*).....Burke's Garden, Va.  
 Roanoke College, A.B., 1887.
- HAMMOND, MARION ISABELLE (*German*).....Fishkill-on-Hudson, N. Y.  
 Mt. Holyoke College, B.L., 1899.
- HARRISON, GAIL (*Kindergarten*).....Santa Barbara, Cal.  
 || HARRISON, MARY FREDERICKA (*Mathematics*).....(Bklyn) New York City  
 HAYES, EUPHEMIA JANET (*Kindergarten*).....(R) New York City  
 HEDGES, ANNA CHARLOTTE (*Domestic Art*).....St. Louis, Mo.  
 Washington University, 1894-1896.  
 Drexel Institute, 1899.
- HEDGES, BLANCHE BLOSSOM (*Physical Science*).....(Mhntn) New York City  
 Vassar College, A.B., 1902.
- \*\* HENDRICKSON, CAROLINE.....Bridgeport, Conn.  
 State Normal School, Oswego, N. Y., 1894.
- HESS, ALICE WARD (*Domestic Science*).....Olin, Ia.  
 Iowa State College, B.S., 1899; M.S., 1902.
- HIX, MELVIN (*Elementary Teaching*).....(Mhntn) New York City  
 HOCHLEITNER, LOUISE (*Domestic Art*).....(Mhntn) New York City  
 HOMANS, SARAH SHEPPARD (*Elementary Teaching*).....(Mhntn) New York City  
 Vassar College, A.B., 1892.
- ‡ HOPKINS, NELLIE LOUISE (*Latin*).....Oxford, N. Y.  
 Cornell University, A.B., 1899.
- || HOWARD, CLARE MACLELEN (*English*).....(Mhntn) New York City  
 HOWE, DELARNE KIPLING (*Elementary Teaching*).....Roselle, N. J.  
 Wellesley College, B.S., 1893.
- HUSTED, MARY IRVING (*Fine Arts*).....(Bklyn) New York City  
 ‡ JARVIE, MARGARET SCOTT (*History*).....Bayonne, N. J.  
 Cornell University, A.B., 1902.
- JENKINS, GRACE ELSIE (*Kindergarten*).....Mt. Vernon, N. Y.  
 || JONES, EDNA BLANCHE.....(Mhntn) New York City  
 KANE, HELEN AGNES (*Latin*).....(Bklyn) New York City  
 Columbia University, A.B., 1901.
- § KENNEDY, ANNA (*Latin*).....Little Silver, N. J.  
 State Normal School, Trenton, N. J., 1881.
- || KING, HELEN LOUISE (*Latin*).....(Mhntn) New York City  
 KNAPP, ELIZABETH SANBORN (*Manual Training*).....Yonkers, N. Y.  
 KYDD, IDA ELIZABETH (*Elementary Teaching*).....(Mhntn) New York City  
 LAING, CONSTANCE BEATRICE (*English, History*).....Toronto, Ont.  
 Trinity University, A.B., 1892; A.M., 1902.

‡ Also a candidate for the A.M. degree.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

\*\* Candidates for the B.S. degree only.

- ‡ LAUDER, MARY AGNES (*English*).....(Bklyn) New York City  
Vassar College, A.B., 1902.
- § LESTER, CAROLINE FOOTE (*English, History*).....Seneca Falls, N. Y.  
State Normal School, Brockport, N. Y., 1898.
- LEWIS, GEORGE LYMAN (*Manual Training*).....Syracuse, N. Y.  
State Normal School, Oswego, N. Y., 1899.
- LOFTUS, MARTHA MARY (*Manual Training*).....North Adams, Mass.
- LONDON, JEANETTE FANNIE (*Elementary Teaching*).....(Mhntn) New York City
- LOVELL, HELEN (*Fine Arts*).....Plainfield, N. J.
- \*\* LUDDINGTON, HARRIET.....New Haven, Conn.  
Teachers College, Higher Diploma, 1900.
- MACNARY, EGBERT EUGENE (*Manual Training*).....Arlington, N. J.
- MCINTYRE, MARGARET ALLEN (*Domestic Science*).....Pensacola, Fla.
- § MCKEIGHAN, ELINOR MATILDA (*English, History*).....St. Louis, Mo.
- MCKINNEY, FANNY LEE (*Kindergarten*).....Binghamton, N. Y.  
Vassar College, A.B., 1898.
- MARSHALL, FLORENCE MABEL (*Manual Training*).....East Douglass, Mass.  
Boston University, A.B., 1899.
- MAYER, HATTIE (*Domestic Science*).....(Mhntn) New York City
- MERRILL, ALICE EUDORA (*Domestic Science*).....Saginaw, Mich.
- MERRILL, SUSAN BLISS (*Domestic Science*).....Lexington, Mich.
- MIDDLETON, HANNAH (*History*).....Franklin, Ind.  
Franklin College, A.B., 1894.
- MITCHELL, IDA MAE (*Domestic Science*).....(Mhntn) New York City
- MONTELL, ELIZABETH (*Elementary Teaching*).....Baltimore, Md.  
State Normal School, Baltimore, Md., 1895.
- MORRISON, GRACE LOUISE (*Elementary Teaching*).....(Mhntn) New York City
- MORRISON, RUTH (*Domestic Science*).....Hedrick, Ia.  
Iowa State College, Ph.B., 1899.
- MYERS, ALICE INGLIS (*Fine Arts*).....New Rochelle, N. Y.
- NASH, NINA MAY (*Elementary Teaching*).....Canton, S. D.  
State Normal School, Madison, S. D., 1888.
- \*\* NASH, WILLIAMETTA ORTON.....South Norwalk, Conn.  
University of Michigan, 1892-1893.  
Teachers College, Bachelor's Diploma for Teaching in Elementary Schools,  
1902.
- NESBIT, MARGARET OTIS (*Fine Arts*).....Yonkers, N. Y.
- ‡ NEWTON, ETHEL BLANCHARD (*Mathematics*).....(Bklyn) New York City
- PARSONS, HENRIETTA GRACE (*Kindergarten*).....(Mhntn) New York City
- PLUMB, CLARA CHARLOTTE (*Elementary Teaching*).....Elizabeth, N. J.
- § POTTER, MARY A. (*Mathematics*).....Easton, N. Y.  
Cornell University, Ph.B., 1892.
- § PREBLE, GRACE ROSAMOND (*Domestic Art*).....(Mhntn) New York City  
Rutgers Female College, A.B., 1876.
- PRIEST, LIDA TULLOCH (*Fine Arts*).....(Bklyn) New York City
- RAITT, EFFIE BELLE (*Domestic Science*).....(Mhntn) New York City
- § REID, FLORENCE ELIZABETH (*Elementary Teaching*).....Jersey City, N. J.
- § RIBLET, MARY VARIAN (*English*).....(Mhntn) New York City
- \*\* RICH, JESSIE PINNING.....Oshkosh, Wis.  
State Normal School, Oshkosh, Wis., 1897.  
Teachers College, Bachelor's Diploma for Teaching Domestic Science, 1902.
- ‡ RICHARDSON, JULIA ELVIRA (*Mathematics*).....Elgin, Minn.  
Northwestern University, B.S., 1889.  
State Normal School, Winona, Minn., 1892.

‡ Also a candidate for the A.M. degree.

§ Also a candidate for the B.S. degree.

‡ Also a candidate for the A.B. degree.

\*\* Candidate for the B.S. degree only.

- ROBERTS, MARIE C. (*Domestic Art*).....(Mhtn) New York City
- § RODMAN, HENRIETTA (*Elementary Teaching*).....Astoria, N. Y.  
State Normal College, Albany, N. Y., 1895-1896.  
State Normal School, Jamaica, N. Y., 1900.
- § RYLAND, MARION GARNETT (*English*).....Richmond, Va.  
Woman's College, Richmond, Va., A.B.; A.M., 1891.
- § RYSHPAN, SARA.....(Mhtn) New York City  
Normal College, New York City, A.B., 1902.
- SANFORD, MAY THOMAS (*Domestic Science*).....(Mhtn) New York City
- § SAWYER, RUTH (*Kindergarten*).....(Mhtn) New York City
- † SCHUMAKER, MARY VIOLA (*English*).....Neale, Pa.  
National Normal University, Lebanon, O., A.B., 1900.
- SCHWERIN, NETTIE PICARD (*Elementary Teaching*).....(Mhtn) New York City
- § SECREST, BIRDIE EMMA (*Domestic Science*).....Randolph, Kan.  
Kansas State Agricultural College, B.S., 1892.
- § SECREST, GRACE (*Domestic Science*).....Randolph, Kan.  
Kansas State Agricultural College, B.S., 1896.  
Pratt Institute, 1899-1900.
- || SEGUINE, LAURA RANDOLPH (*Latin*).....(R) New York City
- § SENIZA, FRANCESCA CATHERINE (*Physical Science*).....Hoboken, N. J.  
State Normal School, Trenton, N. J., 1900.
- SILL, KATHARINE ANNE (*Elementary Teaching*).....Sodus, N. Y.  
State Normal School, Brockport, N. Y., 1900.
- || SKINNER, MADELEINE DAYRELL (*English*).....(Bklyn) New York City
- SOUTHWORTH, RAY LLOYD (*Manual Training*).....Mondovi, Wis.
- \*\* STEINERT, JOHN BERNHARDT.....(Mhtn) New York City  
Teachers College, Manual Training Diploma, 1899.
- STEPHENS, ENOLA GENEVIEVE (*Latin*).....Springfield, Mass.  
Smith College, A.B., 1901.
- † STRONG, WILLIAM MAHLON.....(Bklyn) New York City  
Colgate University, A.B., 1894.  
State Normal College, Albany, N. Y., Pd.B., 1898.
- \*\* SWAN, EVELYN.....(Mhtn) New York City  
Teachers College, Elementary Diploma, 1898.
- || SWENSON, JOHN AUGUST (*Mathematics*).....(Bklyn) New York City
- SWICK, KATHARINE DE FOREST (*Elementary Teaching*).....Somerville, N. J.  
Elmira College, A.B., 1888.
- || TAYLOR, JOHN WARREN (*English*).....Utica, N. Y.
- THOMPSON, VIRGINIA (*Fine Arts*).....Monticello, N. Y.
- TROWBRIDGE, ELEANOR ELIZABETH (*Domestic Science*).....Toledo, O.
- § VENABLE, MARY GRACE.....Asheville, N. C.  
Normal and Collegiate Institute, Asheville, N. C., 1899.
- || WALLACH, ADELÉ NETTIE (*Latin*).....(Mhtn) New York City
- WALTERS, ELIZABETH ROSE (*Mathematics*).....(Mhtn) New York City
- WEEKS, CORNELIA (*Domestic Science*).....Lincoln, Kan.
- WHEELER, ALTHEA (*Domestic Science*).....Salt Lake City, Utah
- WHITE, JENNIE ROSAMOND.....(Mhtn) New York City  
University of California, Ph.B., 1893.
- WHITLOCK, MAUD (*Kindergarten*).....Los Angeles, Cal.  
University of Southern California, 1891-1893.  
State Normal School, Los Angeles, Cal., 1897-1899.
- WIGHT, MARGARET VAN DYCK (*Manual Training*).....(Mhtn) New York City
- WILBUR, HELEN REYNOLDS (*Domestic Science*).....New London, Conn.

† Also a candidate for the A.M. degree.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

\*\* Candidate for the B.S. degree only.

- WILKINSON, LOUISE VON V. (*Manual Training*).....Newburgh, N. Y.  
 † WOOD, CHARLES WINTER (*English*).....Tuskegee, Ala.  
     Beloit College, A.B., 1895; A.M., 1898.  
     Chicago Theological Seminary, A.B., 1898.  
 WYANT, ALICE MAY (*Kindergarten*).....(Mhntn) New York City  
 \*\* WYCKOFF, HARRIET ELVIRA.....Cuba, N. Y.  
 ZERBE, DAISY MAUD (*Music*).....(Mhntn) New York City

## JUNIOR CLASS

- ABBOTT, JULIA WADE (*Kindergarten*).....East Orange, N. J.  
 || ARNAUD, LUCY GIULIA (*Secondary Teaching*).....(Bklyn) New York City  
 § BALLOU, FRANK WASHINGTON (*Secondary Teaching*).....Potsdam, N. Y.  
     State Normal School, Potsdam, N. Y., 1902.  
 || BARKER, SADIE ROSE (*Secondary Teaching*).....Irvington, N. Y.  
 BEATON, ADAH APHIA (*Kindergarten*).....Columbus, O.  
     Kindergarten Normal Training School, Columbus, O., 1899.  
 || BEIFELD, MINNIE MARGARET (*Secondary Teaching*).....(Mhntn) New York City  
 BENTLEY, BERTHA M. (*Elementary Teaching*).....Hastings, Mich.  
     State Normal School, Ypsilanti, Mich., 1898.  
 § BERGER, MARGARET FLORENTINE (*Secondary Teaching*).....(Mhntn) New York City  
 BISHOP, LANA (*Domestic Art*).....Grand Rapids, Mich.  
 BLANCHARD, EDITH (*Kindergarten*).....Montpelier, Vt.  
     Smith College, B.L., 1902.  
 BLUNT, ACHRA MARGARET (*Music*).....Dunkirk, N. Y.  
     University of Michigan, 1893-1895.  
     State Normal School, Ypsilanti, Mich., 1896.  
 || BOULGER, MINNIE RANDOLPH (*Secondary Teaching*).....(Mhntn) New York City  
 BOYER, MILLIE (*Domestic Science*).....Meadville, Pa.  
 || BRACE, DONALD CLIFFORD (*Secondary Teaching*).....(Mhntn) New York City  
 BRETSCH, HOMER LAWRENCE (*Elementary Teaching*).....(Mhntn) New York City  
     State Normal School, Oswego, N. Y., 1898.  
 § BRIGGS, EVA ELIZA (*Secondary Teaching*).....Potsdam, N. Y.  
     State Normal School, Potsdam, N. Y., 1893.  
 BRUCKMAN, ROSE H. (*Domestic Science*).....St. Louis, Mo.  
 § BURFITT, LEILA R. GODFREY (*Elementary Teaching*).....East Orange, N. J.  
 BUTLER, FLORENCE LOUISE (*Elementary Teaching*).....Orange, N. J.  
 BUTLER, LOUIS CALDWELL (*Manual Training*).....Philadelphia, Pa.  
 || BUTTS, EDITH (*Secondary Teaching*).....Hoboken, N. J.  
 BYRNE, JULIA (*Elementary Teaching*).....(Mhntn) New York City  
 CATTON, MARY ELIZABETH (*Elementary Teaching*).....(Bklyn) New York City  
     State Normal School, Geneseo, N. Y., 1877.  
 § CAZIN, ADELE (*Secondary Teaching*).....Hoboken, N. J.  
     State Normal School, Trenton, N. J., 1896.  
 || CHEESMAN, FLORENCE PALMER (*Secondary Teaching*).....(Mhntn) New York City  
 CLARE, TERESA ANNA C. GENEVIEVE (*Domestic Science*).....(Mhntn) New York City  
     Normal College, New York City, A.B., 1902.  
 § CLARK, ANNA MANSFIELD (*Elementary Teaching*).....Salisbury, Conn.  
 || CLAFFY, MARGARET LORETTA CHARLES (*Secondary Teaching*) (Bklyn) New York City  
 CONNER, MARY EMMA (*Elementary Teaching*).....Scranton, Pa.  
 COONEY, GENEVIEVE (*Kindergarten*).....(Q) New York City  
     Kindergarten Training School, Albany, N. Y., 1896.  
 COUCH, FRANK ROBERT (*Manual Training*).....Berkeley, Cal.  
     State Normal School, San José, Cal., 1885.

† Also a candidate for the A.M. degree.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

\*\* Candidate for the B.S. degree only.

- COX, MARY VENABLE (*Manual Training*).....Farmville, Va.  
State Normal School, Farmville, Va., 1900.
- || CURTIS, SARAH THEODORA (*Secondary Teaching*).....(Mhtn) New York City  
DAVIDSON, FLORENCE AMY (*Elementary Teaching*).....Dobbs Ferry, N. Y.  
DAVIDSON, MARY ELIZABETH SPENCE (*Elementary Teaching*)... (Mhtn) New York City  
Normal College, New York City, 1895.
- || DENTON, MABEL (*Secondary Teaching*).....Paterson, N. J.  
DOLPHIN, MARY EDNA (*Elementary Teaching*).....(Mhtn) New York City  
State Normal School, Emporia, Kan., 1883.
- DOSTER, JAMES JARVIS (*Manual Training*).....Troy, Ala.  
State Normal School, Troy, Ala., Ph.B., 1902.
- DUNNING, MARY AIKMAN (*Domestic Art*).....(Bklyn) New York City  
Training School, Brooklyn, N. Y., 1887.
- || DURANT, AGNES LACY (*Secondary Teaching*).....(Mhtn) New York City  
ELLIOT, LILLA MOOR (*Domestic Art*).....Brunswick, Me.  
State Normal School, Framingham, Mass., 1880.
- ELTINGE, LOUISE (*Elementary Teaching*).....New Paltz, N. Y.  
ENNIS, O'NARA (*Manual Training*).....Milledgeville, Ga.  
|| ENRIGHT, EMMA MULFORD (*Secondary Teaching*).....Freehold, N. J.  
FEIGENBAUM, CECILIA (*Fine Arts*).....(Mhtn) New York City  
Normal College, New York City, 1898-1902.
- FORREST, NATALIE STERNBERG (*Domestic Science*).....(Mhtn) New York City  
Barnard College, 1900-1902.
- FRIDENBERG, PAULINE (*Elementary Teaching*).....(Mhtn) New York City  
Normal College, New York City, 1880.
- FRIESS, LOTTIE L. (*Music*).....(Br) New York City  
GADDIS, CAROLINE JOSEPHINE (*Elementary Teaching*).....Jersey City, N. J.  
Normal College, New York City, 1889.
- || GALLERT, DORIS PAULA (*Secondary Teaching*).....(Mhtn) New York City  
GARRISON, M. JENNIE (*Domestic Art*).....Tuckerton, N. J.  
State Normal School, West Chester, Pa., 1897.
- § GILLILAND, FLORENCE (*Secondary Teaching*).....Geneva, N. Y.  
GOMEZ, MILDRED (*Kindergarten*).....(Mhtn) New York City  
GOODSELL, WILLYSTINE (*Elementary Teaching*).....Springfield, Mass.  
Welch Training School, New Haven, Conn., 1890.
- § GRAVES, JAMES MARTIN (*Secondary Teaching*).....Waddington, N. Y.  
State Normal School, Potsdam, N. Y., 1888.
- GRISWOLD, FLORENCE KRESSLER (*Elementary Teaching*).....(Mhtn) New York City  
§ GUERRY, JULIA EVANS (*Elementary Teaching*).....Waverly Mills, S. C.  
College for Women, Columbia, S. C., A.B., 1897.
- GUILBERT, JOSEPHINE (*Fine Arts*).....San José, Cal.  
State Normal School, San José, Cal., 1896.
- HALEY, ELIZABETH MAUDE (*Elementary Teaching*).....Jasper, Ala.  
Peabody Normal College, Nashville, Tenn., 1886.
- HALLOWELL, HELEN (*Kindergarten*).....(Mhtn) New York City  
HAMMOND, LUCY EDITH (*Domestic Science*).....Seattle, Wash.  
Denver University, B.L., 1898.
- HANSON, IDA EAGLETON (*Manual Training*).....(Mhtn) New York City  
|| HARCOURT, ALFRED (*Secondary Teaching*).....New Paltz, N. Y.  
State Normal School, New Paltz, N. Y., 1900.
- HARRIS, HOWARD STODDARD (*Manual Training*).....Walkill, N. Y.  
HARTWELL, EDITH MARY (*Elementary Teaching*).....Le Roy, N. Y.  
State Normal School, Geneseo, N. Y., 1898.

§ Also a candidate for the B.S. degree.      || Also a candidate for the A.B. degree.

- || HAWES, JANE JEWETT (*Secondary Teaching*).....New Rochelle, N. Y.  
 HAYES, EMMA BEULAH (*Kindergarten*).....Lewisburg, Pa.  
 Woman's College, Baltimore, Md., A.B., 1901.
- HEDLEY, BERTRAM (*Manual Training*).....Cleveland, O.  
 Western Reserve Medical College, 1894-1895.
- § HICKS, LOIS MARGARET (*Elementary Teaching*).....(Mhtn) New York City  
 State Normal School, Brockport, N. Y., 1887.  
 New York University, 1895-1898.
- HILL, FLORA A. (*Domestic Art*).....Chateaugay, N. Y.
- || HIRSCH, SELMA HELEN (*Secondary Teaching*).....(Mhtn) New York City
- § HOLT, EDITH (*Secondary Teaching*).....Bloomfield, N. J.
- § HOUSE, ETHEL ADELINE (*Kindergarten*).....Salonica, Turkey  
 Lake Erie College, B.L., 1901.
- HOWLAND, ELIZA AGNES (*Manual Training*).....Conway, Mass.  
 State Normal School, Westfield, Mass., 1886.
- HUBBARD, MARY AGNES (*Domestic Art*).....New Rochelle, N. Y.
- HUBBARD, SARAH GWENNIE (*Domestic Science*).....Logan, Utah  
 Brigham Young College, 1897.
- § HUGHES, MARGARET MARIA (*Elementary Teaching*).....(Mhtn) New York City  
 Normal College, New York City, 1876.
- HULETT, MARGARET (*Elementary Teaching*).....Newburgh, N. Y.  
 Radcliffe College, 1898-1900.
- || HUNT, MARTHA MARGARITA (*Secondary Teaching*).....Jersey City, N. J.
- § HUNTER, JEANNETTE BEGG (*Elementary Teaching*).....Thompsonville, Conn.  
 State Normal School, New Britain, Conn., 1893.
- HUNTINGTON, RUTH (*Manual Training*).....Norwich, Conn.  
 Smith College, B.L., 1897.
- § HUNTING, JANET SARAH (*Elementary Teaching*).....Hartford, Conn.  
 State Normal School, New Britain, Conn., 1895.
- || HURLEY, THOMAS L. (*Secondary Teaching*).....(Mhtn) New York City
- § HUTTMAN, MAUDE ALICE.....(Bklyn) New York City
- JESSUP, EMILY CATHERINE (*Music*).....Salt Lake City, Utah
- KEATING, MATTIE (*Domestic Science*).....Litchfield, Ill.
- § KEIL, CAROLINE ELIZABETH (*Secondary Teaching*).....(Mhtn) New York City
- § LACHMUND, META BAXTER (*Domestic Science*).....St. Louis, Mo.  
 Washington University, St. Louis, Mo., 1898-1899.  
 University of Chicago, 1899-1902.
- || LEERS, HELMA (*Secondary Teaching*).....Paterson, N. J.
- || LEWIS, IDA ETHEL (*Secondary Teaching*).....(Mhtn) New York City
- LINTON, ANNIE (*Manual Training*).....Athens, Ga.  
 Cook County Normal School, Chicago, Ill., 1896.
- LOW, ANNA SARGENT (*Elementary Teaching*).....(Mhtn) New York City  
 State Normal School, Westfield, Mass., 1884.
- LUBLIN, JANET (*Domestic Science*).....(Mhtn) New York City  
 State Normal School, Geneseo, N. Y., 1888.
- § LUCEY, MICHAEL HENRY (*Secondary Teaching*).....New Paltz, N. Y.  
 State Normal School, New Paltz, N. Y., 1899.
- MACDERMAID, MARY (*Domestic Science*).....(Mhtn) New York City
- § MACINNES, ALEXANDRA (*Secondary Teaching*).....(Mhtn) New York City  
 Ladies' College, Hamilton, Ont., M.E.L., 1890.  
 Normal College, Hamilton, Ont., 1898.
- MCDONALD, MARY ISABEL (*Elementary Teaching*).....(Mhtn) New York City  
 Normal College, New York City, 1880.

|| Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree.



- § McDOWELL, LAURA ELOISE (*Elementary Teaching*)..... Penn Yan, N. Y.  
State Normal College, Albany, N. Y., 1897.
- McKAY, MARGARET ELLIOT (*Elementary Teaching*)..... Wilmington, Del.
- || McLEAN, ELIZABETH (*Secondary Teaching*)..... Jersey City, N. J.
- McMULKIN, MARTHA JANE (*Elementary Teaching*)..... (Bklyn) New York City  
Normal College, Toronto, Ont., 1879.
- MADDOCK, CATHERINE LORETTA (*Kindergarten*)..... (Mhtn) New York City
- MARSHALL, MAY (*Fine Arts*)..... Kansas City, Mo.
- MARTEN, CHARLES (*Manual Training*)..... Philadelphia, Pa.
- MARTEN, WILLIAM SAMUEL (*Manual Training*)..... Philadelphia, Pa.
- MASON, KATE JULIETTE (*Elementary Teaching*)..... Cleveland, O.  
College for Women, Cleveland, O., 1898-1900.
- MATHESON, WINIFRED (*Elementary Teaching*)..... Helena, Mont.
- || METCALPE, LIZZETTE MAY (*Secondary Teaching*)..... (Bklyn) New York City
- || MILLER, MILDRED ELSEGOOD (*Secondary Teaching*)..... (Bklyn) New York City
- || MORGAN, CHARLOTTE ELIZABETH (*Secondary Teaching*)..... (Bklyn) New York City
- MORRIS, REBECCA VARY (*Kindergarten*)..... Salt Lake City, Utah
- || NEVINS, DORA RUSSELL (*Secondary Teaching*)..... (Bklyn) New York City
- O'GERAN, ANNIE SUSAN (*Elementary Teaching*)..... (Mhtn) New York City  
State Normal School, Oswego, N. Y., 1890.
- O'GRADY, ALICE (*Elementary Teaching*)..... New Britain, Conn.  
Normal School, Toronto, 1890.
- OAKES, EVA MAY (*Fine Arts*)..... Bricksville, O.
- OAKLEY, EDITH JANE (*Fine Arts*)..... Huntington, N. Y.
- § ODENCRANTZ, SULLA CAROLINE (*Secondary Teaching*)..... Houston, Texas
- OPPER, EMILY MARIAN (*Domestic Science*)..... (Mhtn) New York City
- PARROTT, ALICE BURROWS (*Elementary Teaching*)..... Elizabeth, N. J.
- † PECK, JULIA EMILY (*Kindergarten*)..... Montpelier, Vt.  
Smith College, B.L., 1902.
- § POTTER, ELLA HATCH (*Elementary Teaching*)..... Geneva, N. Y.
- PRINDLE, STELLA MARTHA (*Fine Arts*)..... Brandon, Vt.  
Radcliffe College, 1892-1893.
- RAINES, JULIA MARSHALL (*Manual Training*)..... Talbotton, Ga.  
Southern Female College, La Grange, Ga., 1893-1894.
- RICH, MARY ELIZABETH (*Elementary Teaching*)..... Oshkosh, Wis.  
State Normal School, Oshkosh, Wis., 1900.
- ROBERTS, HELEN E. (*Kindergarten*)..... Mt. Vernon, N. Y.
- SCHAUFFLER, CLARA ELIZABETH (*Domestic Science*)..... New Rochelle, N. Y.
- SCRIBNER, ARABELLA (*Elementary Teaching*)..... (Mhtn) New York City  
Rutgers Female College, B.L., 1876.
- § SEATON, GRACE MARIA (*Elementary Teaching*)..... (Mhtn) New York City  
State Normal School, Albany, N. Y., 1893.
- SHACKELFORD, FRANCES HUNE (*Manual Training*)..... Griffin, Ga.
- SHERMAN, KATHERINE MIRANDA (*Elementary Teaching*)..... West Rutherford, Vt.  
State Normal College, Albany, N. Y., 1891.
- SHERRICK, MARY MINER (*Kindergarten*)..... Lock Haven, Pa.  
Wilson College, Chambersburg, Pa., 1887-1890.  
State Normal School, Lock Haven, Pa., 1901-1902.
- SIMONS, LETITIA WILLIS (*Domestic Science*)..... Port Chester, N. Y.  
Woman's College, Baltimore, Md., A.B., 1901.
- SMITH, DAISY KEENER (*Elementary Teaching*)..... Weatherford, Tex.
- § SMITH, ETTA LUCY (*Kindergarten*)..... Lee, Mass.  
Smith College, 1900-1902.

|| Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree.

- SMITH, EVELYN (*Domestic Art*).....Plattsburg, N. Y.  
State Normal School, Plattsburg, N. Y., 1896.
- § STACKPOLE, CAROLINE EMMARETTA (*Secondary Teaching*).....Plattsburg, N. Y.  
State Normal School, Plattsburg, N. Y., 1899.
- § STEELE, MINNIE LOUISE (*Secondary Teaching*).....(Mhtn) New York City
- STEIGER, KATHERINE FRENCH (*Domestic Art*).....Baltimore Md.
- STEVENS, HARRIET LILLIAN (*Kindergarten*).....Elbridge, N. Y.
- STOCKER, MARY AGNES (*Fine Arts*).....Gnadenhutten, O.  
Cook County Normal School, 1900.
- STOLLZFUS, AMANDA (*Manual Training*).....Sunnyside Farm, Tenn.  
Peabody Normal College, Nashville, Tenn., 1886.
- STITES, MABEL CLARA (*Kindergarten*).....Harrisburg, Pa.
- STRYKER, ADELAIDE BEVERLY (*Domestic Science*).....White Plains, N. Y.
- § TAGGART, ALICE R. (*Secondary Teaching*).....(Mhtn) New York City
- § TAYLOR, ABRAM RUSSEL (*Secondary Teaching*).....(Bklyn) New York City  
State Normal School, Jamaica, N. Y., 1902.
- THOMAS, MARY MAY (*Manual Training*).....Oxford, O.  
Oxford College, Oxford, O., B.L., 1901.
- THOMPSON, CHRISTINA MARIE (*Domestic Art*).....Portland, Me.  
State Normal School, Portland, Me., 1892.  
Pratt Institute, Brooklyn, N. Y., 1898.
- TILFORD, AVONIA BENSON (*Elementary Teaching*).....(Mhtn) New York City  
Training School, Jersey City, N. J., 1882.
- § TRUBE, JESSIE MAUD (*Kindergarten*).....Hastings-on-Hudson, N. Y.
- § TURNER, JESSICA KNAPP (*Secondary Teaching*).....Addison, N. J.  
Elmira College, 1882-1883.
- WAHLSTROM, LEONARD WILLIAM (*Manual Training*).....Indianapolis, Ind.
- WALLACE, ISABEL (*Domestic Art*).....St. Louis, Mo.  
Washington University, St. Louis, 1900-1902.
- WARD, MARY ANNA (*Domestic Science*).....Parowan, Utah
- WARE, GERTRUDE HUNTINGTON (*Elementary Teaching*).....Hartford, Conn.  
State Normal School, New Britain, Conn., 1899.
- § WARNER, HELEN ALLENE (*Secondary Teaching*).....Forestville, N. Y.  
State Normal School, Fredonia, N. Y., 1897.
- WELLS, FLORENCE E. (*Domestic Science*).....Saginaw, Mich.
- WELSH, HELEN BROMLEY (*Elementary Teaching*).....Hatboro', Pa.  
State Normal School, Philadelphia, Pa., 1883.
- WELSH, KATHARINE A. (*Elementary Teaching*).....(Mhtn) New York City
- WEST, CLAUDE LORRAINE (*Elementary Teaching*).....Paterson, N. J.
- WHEALTON, INDIANA REBECCA (*Elementary Teaching*).....(Mhtn) New York City  
Western Maryland College, A.B., 1898.
- WHITCOMB, EMELINE (*Elementary Teaching*).....Manana, Wis.  
State Normal School, Oshkosh, Wis., 1899.
- WHITLEY, MARY THEODORA (*Domestic Science*).....Ottawa, Canada
- WICKLIFFE, MARY FRANCES (*Manual Training*).....Greenwood, S. C.
- WOOD, CAROLINE CONKLIN (*Domestic Art*).....Seneca Falls, N. Y.
- § WOOD, MARGARET CHESTER (*Secondary Teaching*).....(Mhtn) New York City  
Normal College, New York City, A.B., 1896.
- WOODRUFF, IVA MARY (*Manual Training*).....Cleveland, O.  
Kindergarten Training School, Cleveland, O.
- § WORTH, WILLIAM ALONZO (*Secondary Teaching*).....(Mhtn) New York City  
State Normal School, Oswego, N. Y., 1899.
- WYMAN, MARY LOUISE (*Domestic Science*).....Manchester Center, Vt.

§ Also a candidate for the B.S. degree.

## UNCLASSIFIED

BEHRENS, SOPHIE M. ( <i>Domestic Art</i> )	(Mhtn) New York City
BRADIN, SELINA VERWICK ( <i>Domestic Science</i> )	Hartford, Conn.
CARRY, EDWARD HARRISON ( <i>Elementary Teaching</i> )	Victoria, Tex.
Tuskegee Normal and Industrial Institute, 1901.	
CHATRY, ALEXANDRA J. ( <i>Domestic Art</i> )	(Bklyn) New York City
FAIRFIELD, CORA D. ( <i>Manual Training</i> )	Des Moines, Ia.
FERRIGAN, ROSALIE ( <i>Domestic Art</i> )	(Mhtn) New York City
HARRINGTON, GRACE AILEEN ( <i>Kindergarten</i> )	(R) New York City
HEATWOLE, CORNELIUS J. ( <i>Elementary Teaching</i> )	Harrisburg, Va.
HOFFMAN, ELIZABETH CUTLER ( <i>Elementary Teaching</i> )	North Chatham, N. Y.
HOOD, MARY SEYMOUR ( <i>Fine Arts</i> )	Newark, N. J.
ISLES, MAUDE MAY ( <i>Fine Arts</i> )	(Mhtn) New York City
LINTON, LUCY ( <i>Manual Training</i> )	Athens, Ga.
PANAYOTORA, DONNKA ( <i>Domestic Science</i> )	Starazagora, Bulgaria
RUHL, ANNA ( <i>Elementary Teaching</i> )	Terre Haute, Ind.
SPEARS, EDNA AMELIA ( <i>Elementary Teaching</i> )	Montgomery, Ala.
Tuskegee Normal and Industrial Institute, 1901.	
STUBBS, H. MAY ( <i>Fine Arts</i> )	West Philadelphia, Pa.
TAYLOR, JESSIE ELMA ( <i>Fine Arts</i> )	(Mhtn) New York City
THACKER, BROWNE KITTREDGE ( <i>Manual Training</i> )	(Mhtn) New York City

## Collegiate Students

## SOPHOMORE CLASS

ADAMS, EDITH SHERWIN	Helena, Mont.
BUCHER, HERMAN	(Mhtn) New York City
ERDWURM, ELSIE	Jersey City, N. J.
GASH, ANNIE JEAN	Decatur, Ga.
** GILL, LULU GENEVIEVE	(R) New York City
** GILLETTE, KATHARINE SLOANE	Mt. Vernon, N. Y.
GORMAN, THOMAS PATRICK	(Q) New York City
HOUCHIN, STELLA E.	Rahway, N. J.
KELLEY, ALCYCE RUTH	Cedar Falls, Ia.
MAEDER, EMILY LYDIA	(Mhtn) New York City
MOORE, EDNA M.	Philadelphia, Pa.
NEWPHER, HELEN	Cleveland, O.
POWELL, LUCY LEE	Staunton, Va.
** REPPENHAGEN, LEILA	Highland Falls, N. Y.
RISELEY, ELIZABETH	Shandaken, N. Y.
ROGERS, ANNA D.	Bennington, Vt.
ROLLINSON, EDITH HOYT	Rahway, N. J.
ROSE, GLADYS MARY	(Mhtn) New York City
SPINGLER, GERTRUDE	(Q) New York City
SPRINGER, ADA	East Las Vegas, New Mexico
STILLMAN, RUTH ELIZABETH	Rahway, N. J.
WARNER, ELIZABETH HAYWARD	(Mhtn) New York City

## FRESHMAN CLASS

ALLEN, ETHEL BUEL	Geneva, N. Y.
BACK, LILIAN	East Orange, N. J.
BROWN, MABEL EDNA	Campville, Conn.
CHAPMAN, EDITH D.	(Q) New York City
CHURCH, MARION EMMA	Passaic, N. J.
CONGER, DELLA LOUISE	New Brunswick, N. J.

\*\* Admitted prior to November, 1901. Not a candidate for the B.S. degree.

COOPER, CHARLOTTE BROWN.....	Louisville, Ky.
CUTTING, JOSEPH RICHARD.....	St. Louis, Mo.
DAVENPORT, ELIZABETH LEVERETT.....	(R) New York City
DEACON, HELEN GRAZIELLA.....	(Mhtn) New York City
FORTMAN, AUGUSTA.....	Union Hill, N. J.
FRAME, MARIE TERESA.....	Mt. Vernon, N. Y.
* GRANT, EMMA COLLIER.....	Summit, N. J.
HOWELL, ABBY STOUT.....	New Brunswick, N. J.
MACDONALD, CATHERINE.....	(Mhtn) New York City
MEADE, REBECCA PAULDING.....	(Mhtn) New York City
MURPHY, JANE FRANCES.....	(R) New York City
MURRAY, JEAN.....	Woodstock, Ont.
OTT, AMELIA HENRIETTA.....	(Mhtn) New York City
OWEN, KATHERINE BOWDITCH.....	Buckland, Conn.
QUILLIARD, FRANCES J.....	(Mhtn) New York City
ROGERS, SARAH LOGAN.....	Louisville, Ky.
ROUSE, RUTH EDITH.....	(Mhtn) New York City
RUSSAK, LOTTA BERNHARDINE.....	(Mhtn) New York City
SACKETT, FRANCES.....	Candor, N. Y.
SPRINGER, EVA.....	East Las Vegas, New Mexico
** TAMAGNO, GRACE MARY.....	(Mhtn) New York City
TASCHE, JUNE.....	(Mhtn) New York City
** THOMAS, EMILY BALDWIN.....	St. Louis, Mo.
THOMAS, NANCY E.....	Dunellen, N. J.
TREAT, MARION.....	Chelsea, Mass.
VOXMAN, WILLIAM.....	(Mhtn) New York City
WALLING, AGNES.....	Ocean Grove, N. J.
WAUGH, LOUISE.....	Johnstown, Pa.
WHITE, EDITH MALCOLM.....	Ossining, N. Y.
WILCOX, WINIFRED.....	Yonkers, N. Y.
WILLSON, BERTHA MARGUERITE.....	(Mhtn) New York City
WOODRUFF, MABELLE.....	Passaic, N. J.

## SPECIAL STUDENTS

BLAKE, CORNELIA.....	Talladega, Ala.
BROWN, KATE.....	(Mhtn) New York City
COUCH, LYDIA ADDICOTT.....	Berkeley, Cal.
CRAIG, AGNES HOUSTON.....	Amity, N. Y.
DODD, ISABEL FRANCES.....	Montclair, N. J.
DRUMMOND, EVELYN M.....	(Mhtn) New York City
GILBERT, GRACE.....	Montclair, N. J.
GOULD, NONA.....	Poughkeepsie, N. Y.
GRIGGS, JENNIE ELIZABETH.....	(Mhtn) New York City
HALIBURTON, MARGARET WINIFRED.....	Richmond, Va.
HONNELL, MARY ARROWSMITH.....	(Q) New York City
JOSEPH, MAUDE.....	(Mhtn) New York City
KRATZENSTEIN, RITA.....	(Mhtn) New York City
KRUSE, AMY.....	(Mhtn) New York City
KRUSEN, ALMA.....	Denver, Col.
LANGDON, AMANDA.....	(Mhtn) New York City
MCCLANCY, JOSEPH STEPHEN VINCENT.....	Dunwoodie, N. Y.
MOODY, JEANNETTE HOPE.....	Cranford, N. J.
MOONEY, MARY.....	(Mhtn) New York City
MOORE, MARY BERTHA.....	Portland, Ore.
OWEN, ADELINE WOOSTER.....	Morristown, N. J.

\*\* Admitted prior to November, 1901. Not a candidate for the B.S. degree.

PHILLIPS, DOROTHEA.....	(Mhtn) New York City
POLLOCK, M. BATTELLE.....	(Mhtn) New York City
RULE, LILLIAN.....	Knoxville, Tenn.
SCULLY, JOSEPH.....	Dunwoodie, N. Y.
SEIDERS, MARTHA A.....	Reading, Pa.
SEWARD, ELIZABETH KIMBER.....	(Mhtn) New York City
SHEPPERSON, MILDRED.....	Columbus, Ga.
STUART, FLORA.....	Wytheville, Va.
SULLIVAN, GEORGE.....	Dunwoodie, N. Y.
SULSONA, JOSÉ DOMINGO.....	(Mhtn) New York City
THISTLE, MARGARET ANNIE.....	(Mhtn) New York City
THORBURN, SUSAN GRAY.....	(Mhtn) New York City
TIERNEY, JOSEPH LEO.....	Dunwoodie, N. Y.
TURNER HELEN MARIA.....	(Mhtn) New York City
TURNER, LAURETTA PINTARD.....	(Mhtn) New York City
UPHAM, BERTHA ALMA.....	(Mhtn) New York City

### *Students in the Course in Hospital Economics*

BARTER, BEATRICE BELINDA.....	Chicago, Ill.
BLACK, FRANCES.....	Pittsford, N. J.
	Rochester Homeopathic Hospital, 1894.
BLISS, AMY AMES.....	Baldwinsville, N. Y.
	Hospital of the Good Shepherd, Syracuse, N. Y., 1892.
HICKOX, IDA MAY.....	Whitinsville, Mass
	Worcester City Hospital, 1899.
KRUEGER, MATHILD.....	Munch, Wis.
	Illinois Training School for Nurses, 1897.
NELSON, JOHANNA.....	Chicago, Ill.
	Augustana Hospital Training School for Nurses, Cleveland, O., 1901.
PERRIN, MARIA LOUISE.....	Denver, Colo.
	Colorado Training School for Nurses, 1900.

### *Irregular Students*

The courses pursued are indicated in parentheses, abbreviated as follows;

(B.)	Biology	(G.)	German
(D.S.)	Domestic Science	(F.A.)	Fine Arts
(Ed.)	Education	(H.)	History
(E.)	English	(Psy.)	Psychology
		(S.)	Physical Science

BENNETT, AGNES LEONARD (S).....	Hackensack, N. J.
BERGER, ANNETTE (Ed.).....	(Mhtn) New York City
BERGER, IDA (H.).....	(Mhtn) New York City
BERGER, LOUISE M. (E.).....	(Mhtn) New York City
BLOOD, ANNAH PRENTICE (F.A.).....	(Mhtn) New York City
BLOSSOM, MARGARET (H.).....	(Bklyn) New York City
CARPENTIER, LEONTINE (Ed.).....	(Mhtn) New York City
CRANE, ELLA E. (H.).....	(Q) New York City
CROOKER, FREDERICK FOSTER (Ed.).....	(Mhtn) New York City
DE LIGARDE, FRANCES F. (Psy., Ed.).....	Hoboken, N. J.
DU BOIS, SOLOMON E. (H.).....	(Mhtn) New York City
EARLE, JOSEPHINE (D.S.).....	(Mhtn) New York City
ELTING, MABEL (E., F.A., & H.).....	New Paltz, N. Y.
FORD, ELLEN V. (Ed., H.).....	(Bklyn) New York City



Brought forward.....	576
V. Students from other Faculties of the University:	
From the Faculty of Philosophy.....	36
" " " " Political Science.....	12
" " " " Pure Science.....	8
" Columbia College.....	3
" Barnard College.....	17
	<u>76</u>
Total Resident Students.....	652

## PUPILS IN TEACHERS COLLEGE SCHOOLS

*Horace Mann School*

High School.....	390
Grammar School.....	290
Primary School.....	240
Kindergarten.....	34
	<u>054</u>

*Speyer School*

Primary School.....	50
Kindergarten.....	40
	<u>90</u>
Total Pupils in Schools.....	1044

Extension Students.....	1135
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## SUMMER SESSION

1902

### ADMINISTRATIVE BOARD

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.

*President of the University and Professor of Philosophy and Education*

JAMES EARL RUSSELL, Ph.D.

*Professor of the History of Education, Dean of Teachers College*

JAMES CHIDESTER EGBERT, Jr., Ph.D.

*Professor of Roman Archæology and Epigraphy, Director of the  
Summer Session*

### Faculty

FRANKLIN THOMAS BAKER, A.M.	English Language and Literature
WILLIAM TENNEY BREWSTER, A.M.	English
ELIZABETH CARSS, Ph.B.	Biology
RICHARD E. DODGE, A.M.	Geography
ANDREW WHEATLEY EDSON, A.M.	Education
JAMES CHIDESTER EGBERT, Jr., Ph.D.	Latin
JEANNETTE BLISS GILLESPIE, A.B.	English
WILLIAM HALLOCK, Ph.D.	Physics
ERNEST NORTON HENDERSON, A.M.	Education
WILLIAM ADDISON HERVEY, A.M.	German
ABRAHAM VALENTINE WILLIAMS JACKSON, Ph.D., L.H.D.	English
ADAM LEROY JONES, Ph.D.	Philosophy
CASSIUS JACKSON KEYSER, Ph.D.	Mathematics
LOUIS AUGUSTE LOISEAUX, B.S.	Romance Languages and Literatures
NELSON GLENN MCCREA, Ph.D.	Latin
JAMES MACLAY, Ph.D.	Mathematics
CHARLES ALEXANDER McMURRY, Ph.D.	Theory and Practice of Teaching
JOHN ANGUS MACVANNEL, Ph.D.	Philosophy and Education
EDMUND HOWD MILLER, Ph.D.	Chemistry
GEORGE CLINTON DENSMORE ODELL, Ph.D.	English
WATSON LEWIS SAVAGE, M.D.	Physical Training
EDWARD LEE THORNDIKE, Ph.D.	Psychology
WILLIAM PETERFIELD TRENT, A.M., LL.D.	English
FRANK LEO TUFTS, Ph.D.	Physics



## Other Instructors

JOSEPH HERSHEY BAIR, A.M.....	<i>Psychology</i>
JESSIE HUBBELL BANCROFT.....	<i>Physical Training</i>
GUSTAV HERMAN BOJUS.....	<i>Physical Training</i>
GEORGE CHRISTIAN OTTO HAAS, A.B.....	<i>English</i>
CHARLES HOLROYD.....	<i>Swimming</i>
GEORGE SAWYER KELLOGG.....	<i>History of Art</i>
MINNIE JACOBS.....	<i>Physical Training</i>
ELSIE KUPFER, A.B.....	<i>Biology</i>
LUCY HESS WEISER.....	<i>Manual Training</i>
GERTRUDE WOLFF.....	<i>Latin</i>

## GENERAL STATEMENT

The third Summer Session of the University opened July 7, 1902, and closed August 15. The registration day for the Summer Session was July 5. Examinations for certificates were held on August 15.

Courses were offered in biology, chemistry, education, English (including rhetoric and composition), fine arts, geography, German, history, Latin, manual training, mathematics, philosophy, physical training, physics, psychology, and Romance Languages.

Each course consisted of thirty lectures or other exercises, or their equivalent in laboratory or field work. Credit for such courses in the Summer Session as are accepted by the several Faculties of the University in partial fulfillment of the requirements for degrees or for teachers' diplomas, may only be claimed by those who sustained satisfactorily the examination at the conclusion of the course.

The tuition fee for the Summer Session is \$25, which covers two courses of instruction, the limit allowed by the regulations.

The usual matriculation fee of \$5 is charged to all students who join the University for the first time at the Summer Session. The Gymnasium fee of \$5, including the use of the gymnasium, a private locker, and the privilege of the swimming pool, is required of all students who take the practice course in physical training, or who make use of the swimming pool, but is optional for all others.

The Summer Session is open to men and women on equal terms.

For the Announcement of the Summer Session of 1903, which will open about July 6, and offer a wide range of courses, or for information regarding dormitory accommodations, or board and lodging, address Director of the Summer Session, Columbia University, New York.

## REGISTER OF STUDENTS

- AARON, REV. A. .... 77 Quincy Street, Passaic, N. J.  
Augsburg College, Minneapolis, Minn., A.B., 1893.  
*French, German.*
- ABBOTT, JULIA SULGER. .... 134 Macon Street, Brooklyn, N. Y.  
Private instruction.  
*Chemistry.*
- ABBOTT, MARY. .... 10 West 126th Street  
Columbia University (Summer Sessions, 1900-1901).  
*Education.*
- ACKERMAN, JENNIE M. .... Red Hook, N. Y. .... 520 West 123d Street  
Normal School, New Paltz, N. Y., 1894.  
Principal, Model School, East Stroudsburg, Pa.  
*Education, Fine Arts, Manual Training.*
- ADAMS, ALICE. .... Kirksville, Mo. .... 1230 Amsterdam Avenue  
State Normal School, Kirksville, Mo., A.B., 1900.  
Teacher, State Normal School, Kirksville, Mo.  
*Manual Training, Psychology.*
- AGNEW, THOMAS, JR. .... Bloomfield, N. J.  
State Normal School, New Paltz, N. Y., 1898.  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, P. S., No. 8, Bloomfield, N. J.  
*German, Philosophy, Physical Training.*
- AHRENSBEUMER, HÉLÈNE. .... 180 Alexander Avenue  
Normal College, New York City, 1877.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 173, New York City.  
*Education, Psychology.*
- ALLEN, HARRY, JR. .... 67 West 73d Street  
Student, University School, 4 years.  
*Chemistry, Physics.*
- ALLEN, THEODORE HENRY. .... 6 West 107th Street  
Student, Columbia University, 3 years.  
*German, Latin, Mathematics.*
- ALMY, MARY T. .... Norwich, Conn. .... 154 West 13th Street  
Free Academy (Normal Dept.), Norwich, Conn., 1890.  
Teacher, Preparatory School, Allegheny, Pa.  
*Education.*
- ALWARD, FANNIE ISABEL. .... 131 Catherine Street, Elizabeth, N. J.  
Columbia University, A.B., 1898.  
*Chemistry, Physics.*
- AMBROSE, MADGE G. .... 665 Lexington Avenue  
Harvard University, 1 year.  
New York University, 1 year.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, P. S. No. 168, New York City.  
*Education, History.*
- AMES, EDGAR W. .... Westport, N. Y. .... 1230 Amsterdam Avenue  
Normal College, Albany, N. Y., Pd.B., 1898.  
Principal, High School, Westport, N. Y.  
*History, Spanish.*

- AMES, GEORGE PARKER.....Flushing, New York  
High School, Flushing, N. Y., 3 years.  
*German, Physics.*
- ANDREWS, WILLIAM ALMON.....Lake Placid, N. Y.....412 West 115th Street  
Normal School, Buffalo, N. Y., 1892.  
Student, Columbia University, 1 year.  
Principal, High School, Lake Placid, N. Y.  
*Education, German.*
- ARROWSMITH, ISABELLE.....Freehold, N. J.....100 West 132d Street  
Student, Normal School, Trenton, N. J.  
Teacher, Drawing, High School, Freehold, N. J.  
*Manual Training.*
- ASHCROFT, CARRIE VAN RENSSELAER....St. Louis, Mo.....542 West 113th Street  
Normal School, St. Louis, Mo., 1889.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, Physical Training, Private Schools, St. Louis, Mo.  
*Physical Training, Spanish.*
- BACON, DANIEL READ.....Goshen, N. Y.....136 West 104th Street  
Student, Columbia University, 3 years.  
*Chemistry.*
- BAIRD, ELLA M. R. (MRS.).....Toledo, Ohio.....209 West 118th Street  
Normal School, Oswego, N. Y.  
Clark University, 1 year.  
Supervisor, Normal School, Toledo, Ohio.  
*Biology.*
- BAKER, ALFRED E.....Aznabruk Centre, Ontario, Can.....263 Quincy Street,  
Morrisburg Collegiate Institute, 2 years. Brooklyn, N. Y.  
Teacher, P. S. No. 108, Brooklyn, N. Y.  
*Education, Psychology.*
- BAKER, AMY L.....752 Summit Street, Bedford Park, N. Y. City  
Normal College, New York City, 1897.  
Teacher, P. S. No. 138, New York City.  
*Education, Fine Arts.*
- BAKER, BERTHA.....Lansing, Mich.....95 Walnut Street, Newark, N. J.  
Michigan Agricultural College, B.S., 1898.  
Teacher, Public Schools, Lansing, Mich.  
*Education, Psychology.*
- BAKER, BESSIE.....Carthage, Mo.....1230 Amsterdam Avenue  
Northwestern University, B.S., 1900.  
Teacher, Public Schools, Carthage, Mo.  
*Education.*
- BALDWIN, ARTHUR POND.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
College of the City of New York, A.B., 1876.  
Columbia University, A.M., 1901.  
Columbia University (Summer Sessions, 1900 and 1901).  
Student, Columbia University, 2 years.  
*French, German, Philosophy.*
- BALDWIN, FLORENCE THEODORA.....417 West 118th Street  
Columbia University, A.B., 1900, A.M., 1902.  
*Latin.*
- BARBER, CORA LIVINGSTON.....Brooklyn, N. Y...Riverside Drive and 100th Street  
Cornell University, 1 year.  
Adelphi College, Brooklyn, A.B., 1901.  
Teacher, P. S. No. 12, Brooklyn, N. Y.  
*English.*
- BARNUM, EDITH CORNELIA.....151 West 105th Street  
Teachers College (Columbia University), 1899.  
Teacher, Horace Mann School, New York City.  
*English.*
- BARR, JESSIE.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
Training School, New York City, 1895.  
Teacher, Training School for Teachers, Brooklyn, N. Y.  
*Mathematics, Philosophy.*

- BARRICK, MARY OLIVE.....20 Elizabeth Street, Jersey City, N. J.  
Columbia University, A.B., 1901.  
*Latin, Philosophy.*
- BASSETT, CHARLOTTE BUTLER....New Britain, Conn.....1230 Amsterdam Avenue  
Student, Teachers College (Columbia University), 1 year.  
Teacher, The Misses Ely's School, New York City.  
*Education, Fine Arts, German.*
- BATTEY, LEWIS BIRCH.....Fall River, Mass.....164 West 129th Street  
Student, Teachers College (Columbia University), 1 year.  
Director of Manual Training, Normal School, Millersville, Pa.  
*Education, Manual Training.*
- BATTLE, MAMIE.....Atlanta, Ga.....1230 Amsterdam Avenue  
Girls' High School, Atlanta, Ga., 4 years.  
Principal, Walker Street School, Atlanta, Ga.  
*Education.*
- BATTLE, SUSIE HAWKINS.....Atlanta, Ga.....1230 Amsterdam Avenue  
Girls' High School, Atlanta, Ga., 1888.  
Teacher, Marietta Street School, Atlanta, Ga.  
*Education, History.*
- BAXTER, HAROLD.....Denver, Col.....132 West 109th Street  
High School, Denver, Col., 1898.  
*Chemistry, German.*
- BECKER, ALICE.....Prohibition Park, West New Brighton, N. Y.  
Cooper Union, New York City, B.S., 1902.  
*Education.*
- BECKER, MOSES, JR.....Brooklyn, N. Y.....47 Church Street, White Plains, N. Y.  
State Normal College, Albany, N. Y., 1880.  
New York University, Pd.D., 1893.  
Cornell University (Summer Sessions, 1900 and 1901).  
Principal, P. S. No. 119, Brooklyn, N. Y.  
*Education, English.*
- BELL, FLORENCE EMILY.....132 Twelfth Street, Long Island City, N. Y.  
Student, Barnard College (Columbia University), 1 year.  
*Latin, Mathematics.*
- BELLER, WILHELMINA CATHARINE.....55 East 112th Street  
Normal College, New York City, 1881.  
Teachers College (Columbia University), Higher Diploma, 1902.  
Teacher, P. S. No. 159, New York City.  
*English, German.*
- BENEDICT, MARION.....Brooklyn, N. Y.....545 West 157th Street  
Vassar College, A.B., 1900.  
Columbia University, A.M., 1901.  
Instructor, English, College of Sisters of Bethany, Topeka, Kansas.  
*Education, English.*
- BENNETT, CLARA RACHEL.....Shawnee, Pa.....520 West 123d Street  
Normal School, Bridgewater, Mass., 1901.  
Teacher, Model School, Bridgewater, Mass.  
*Education, Fine Arts.*
- BENNETT, LAURA J.....Newark, N. J.  
Normal School, Newark, N. J.  
Teacher, Public Schools, Newark, N. J., 1882.  
*History.*
- BERGER, ANNETTE.....1772 Madison Avenue  
Normal College, New York City, 1888.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 157, New York City.  
*English, Geography.*
- BERGER, IDA.....1772 Madison Avenue  
Normal College, New York City, 1887.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 89, New York City.  
*English, Geography.*

- BERGER LOUISE MARIE.....1772 Madison Avenue  
Normal College, New York City, 1878.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 45, New York City.  
*English, Geography.*
- BERGER, MARGARET.....58 West 129th Street  
Höhere Töchterchule, Stettin, Germany, 1882.  
Alliance Française, Paris, 1899, 1901.  
*German, Psychology.*
- BERMINGHAM, FLORENCE.....202 West 138th Street  
Normal College, New York City, 1879.  
Teacher, P. S. No. 119, New York City.  
*Education, Mathematics.*
- BEST, FANNIE ELSSLER.....New Dorp, N. Y.  
Normal College, Albany, N. Y., 1877.  
Extension Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 11, Richmond Borough, New York City.  
*Education, French.*
- BLACK, ANNE ACHESON.....520 West 140th Street  
Normal College, New York City, 1886.  
Teacher, P. S. No. 89, New York City.  
*Education.*
- BLAIR, VEVIA.....Buffalo, N. Y.....417 West 118th Street  
Miss Nold's School, Louisville, Ky., 1888.  
Teacher, Mathematics, St. Margaret's School, Buffalo, N. Y.  
*English, Mathematics.*
- BLAN, LOUIS B.....Port Richmond, Richmond Borough, New York City  
College of the City of New York, B.S., 1901.  
Teacher, Public School, Elm Park, Richmond Borough, N. Y. City.  
*Education, Mathematics.*
- BLAUROCK, MAUDE HENRIETTA.....East Orange, N. J.....360 West 119th Street  
High School, East Orange, N. J., 1896.  
Harvard University (Summer Session, 1898).  
Teacher, Physical Training, Private Schools, Newark and Orange, N. J.  
*Physical Training.*
- BOCKÉE, ANNA BATTELL.....Trenton, N. J.....1230 Amsterdam Avenue  
Mt. Holyoke College, Mass., B.S., 1892.  
Teacher, German, State Schools, Trenton, N. J.  
*German.*
- BOECKER, ALEXANDER.....312 East 85th Street  
College of the City of New York, B.S., 1898.  
Columbia University, Applied Science, Summer School, 1901.  
Teacher, Shopwork, P. S. No. 2, New York City.  
*Chemistry.*
- BOGART, PHOEBE MAY.....2033 Washington Avenue  
Wellesley College, A.B., 1902.  
*Physics.*
- BOGART, SARAH HELEN.....2033 Washington Avenue  
Wellesley College, A.B., 1899.  
Columbia University, A.M., 1900.  
Teacher, Public Schools, New York City.  
*Latin.*
- BOISSE, PIERRE SETH.....137 East 73d Street  
Chapin Collegiate School, New York City, 6 years.  
Student, Columbia University, 3 years.  
*Chemistry, Physics.*
- BOND, NELLIE ASHBURN.....Windsor, N. C.....1230 Amsterdam Avenue  
Normal College, North Carolina, 1897.  
Teacher, English, State Normal College, Greensboro, N. C.  
*Education, English.*
- BONSALL, VICTOR FITCH MOUNT.....160 West 95th Street  
Columbia University, A.B., 1901; A.M., 1902.  
*Latin.*

- BOORMAN, CHARLOTTE SAYRE.....Lafayette Boulevard, West 173d Street  
Sayre Female Institute, Lexington, Ky., 1861.  
*English.*
- BOSWORTH, MARGUERITE BLANCHE.....111 West 115th Street  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 159, New York City.  
*Education, Psychology.*
- BOWN, EUPHROSYNE.....Bridgeport, Conn.....1230 Amsterdam Avenue  
Student, Teachers College (Columbia University), 1 year.  
Radcliffe College, 1 year.  
Clark University and Harvard University (Summer Sessions, 1899 to 1901).  
Supervisor, Training School, Bridgeport, Conn.  
*Education, Philosophy.*
- BOWTELL, GRACE.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
Normal College, New York City, 1887.  
Teacher, P. S. No. 92, New York City.  
*Education, English.*
- BRACKETT, ANNA SPEED.....604 West 115th Street  
Normal College, New York City, A.B., 1894.  
Cornell University (Summer Session, 1895).  
Student, Barnard College (Columbia University), 1 year.  
*Latin.*
- BRAINARD, HARRIET GERTRUDE.....26 West 129th Street  
Normal College, New York City, 1879.  
Teacher, P. S. No. 90, New York City.  
*Education, Psychology.*
- BRAUTIGAM, IDA MARGARET.....170 West 83d Street  
Normal College, New York City, 1887.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 95, New York City.  
*History.*
- BRAY, ARVESTA CLARKE.....West Superior, Wis.....522 West 123d Street  
Minneapolis Training School, 1892.  
Minnesota State University, 1 year.  
*Education, Fine Arts.*
- BRAY, GEORGE E.....West Superior, Wis.....522 West 123d Street  
Minnesota State University, B.M.E., 1894.  
Supervisor, Manual Training, Public Schools, Superior, Wis.  
*Fine Arts, Manual Training.*
- BRAY, WASHINGTON IRVING.....Cliffside, N. J.  
Normal College, Albany, N. Y., 1889.  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, Public Schools, Cliffside, N. J.  
*French, German.*
- BREITWIESER, WILLIAM.....Bellevue, Pa.....1230 Amsterdam Avenue  
Washington and Jefferson College, B.S., 1900.  
Teacher, High School, Allegheny, Pa.  
*Mathematics.*
- BRIANT, LENA.....Dover, N. J.  
High School, Dover, N. J., 1885.  
Teacher, Public Schools, Dover, N. J.  
*Education, English.*
- BRICE, MARGARET JANE.....Coney Island and M Avenues, Brooklyn, N. Y.  
Adelphi College, 2 years.  
Harvard University (Summer Session, 1898).  
Teacher, P. S. No. 5, Brooklyn, N. Y.  
*Education, Geography.*
- BRIDGMAN, ANNE TOWNSEND.....157 West 123d Street  
Barnard College (Columbia University), 2 years.  
Teachers College (Columbia University), 2 years.  
Columbia University (Summer Sessions, 1900 and 1901).  
*English, German.*

- BROOKS, REBECCA BELLE.....Baltimore, Md.....1230 Amsterdam Avenue  
Western High School, Baltimore, Md., 1885.  
Teacher, Eastern High School, Baltimore, Md.  
*Psychology.*
- BROWN, ROBERT DAVIS.....Washington, D. C.....406 West 47th Street  
Dartmouth College, A.B., 1898.  
Episcopal Theological School, Cambridge, Mass., B.D., 1901.  
*Education, Geography.*
- BRYAN, MARY MCILVAINE.....St. Louis, Mo.....23 Villa Avenue, Yonkers, N. Y.  
Washington University, A.B., 1896.  
Teacher, Mary Institute, St. Louis, Mo.  
*Biology, Education.*
- BRYAN, M. WINNIFRED.....Kirkville, Mo.....143 West 61st Street  
High School, Carthage, Mo., 1894.  
Supervisor, Manual Training, Missouri State Normal School.  
*Manual Training.*
- BUCK, EFFIE.....Kansas City, Mo.....1230 Amsterdam Avenue  
Central High School, Kansas City, Mo., 5 years.  
Teacher, Mathematics, Central High School, Kansas City, Mo.  
*Fine Arts, Mathematics, Physical Training.*
- BUCKLEY, REBECCA T.....Chester and Blake Avenues, Brooklyn, N. Y.  
St. James Academy, 1880.  
Adelphi College, 2 years.  
Teacher, P. S. No. 125, New York City.  
*Geography.*
- BUCONS, LOUIS.....1441 Madison Avenue  
Cornell University, 1 year.  
*Physics.*
- BUDD, SARAH ROWAND.....Mount Holly, N. J.....1230 Amsterdam Avenue  
Mt. Holyoke College, A.B., 1894.  
Teacher, Latin and English, State Model School, Trenton, N. J.  
*Latin.*
- BURT, AMY MAUD.....Swanton, Vt.....1230 Amsterdam Avenue  
University of Vermont, Ph.B., 1900.  
Teacher, English and History, High School, St. Albans, Vt.  
*Education.*
- BUTLER, LOUIS CALDWELL.....Philadelphia, Pa.....1230 Amsterdam Avenue  
Germantown Academy, Pa., 1891.  
*English.*
- BUTTRICK, HAROLD EDGAR.....1319 Bedford Avenue, Brooklyn, N. Y.  
Yale University, A.B., 1895.  
Teacher, English, Boys' High School, Brooklyn, N. Y.  
*Education.*
- BUXTON, GEORGE FREDERICK.....Portland, Maine.....1230 Amsterdam Avenue  
Pratt Institute, Brooklyn, N. Y., 1899.  
Columbia University (Summer Session, 1900).  
Teacher, Manual Training, Public Schools, Portland, Me.  
*Manual Training, Philosophy, Psychology.*
- CARPENTER, SELICK TOWNSEND, Jr.....365 Seventy-seventh Street, Brooklyn, N. Y.  
*Mathematics, Physics.*
- CARSS, HARRIET.....537 West 141st Street  
Normal College, New York City, 1880.  
Teacher, P. S. No. 68, New York City.  
*Education, Physical Training.*
- CARTER, CHARLES P.....Ridgewood, N. J.  
New Jersey State Normal School, 1894.  
Principal, Public School, Glen Rock, N. J.  
*Education.*
- CARTER, JANE GRAY.....513½ East 118th Street  
Normal College, New York City, A.B., 1901.  
Teacher, P. S. No. 103, New York City.  
*Latin.*

- CARTER, M. CARRIE.....513½ East 118th Street  
Normal College, New York City, 1888.  
Teacher, P. S. No. 103, New York City.  
*Education.*
- CASHIN, WILLIAM EUGENE.....St. Joseph's Seminary, Dunwoodie, Yonkers, N. Y.  
St. Charles College, Ellicott City, Md., 1899.  
*Education.*
- CASSIN, KATHARINE L.....117 East 92d Street  
Normal College, New York City, 1892.  
Teacher, P. S. No. 21, New York City.  
*English, Psychology.*
- CATERSON, ELIZA A.....Eighteenth Avenue, Wakefield, New York City  
Principal, P. S. No. 138, New York City.  
*Education, Fine Arts.*
- CHAMBERLAIN, AMOS.....18 Pennington Street, Paterson, N. J.  
New York University, Pd.M., 1902.  
Teacher, Public Schools, Bloomfield, N. J.  
*Manual Training.*
- CHATFIELD, GEORGE HERBERT.....19 West 106th Street  
State Normal School, New Paltz, N. Y., 1892.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 69, New York City.  
*Education, German.*
- CHOISEL, GUSSIE M.....St. Louis, Mo.....1230 Amsterdam Avenue  
Normal School, St. Louis, Mo., 1878.  
Principal, Public Schools, St. Louis, Mo.  
*Education, Geography.*
- CLAPP, LELIA FLORENCE.....St. Louis, Mo.....417 West 118th Street  
Columbia University (Summer Session, 1901).  
Teacher, Manual Training, Phillips School, St. Louis, Mo.  
*Manual Training.*
- CLARKE, CORA ESTELLE.....Yonkers, N. Y....."The Homestead," Leonia, N. J.  
High School, Yonkers, N. Y., 1900.  
Teacher, Manual Training, State Normal School, Athens, Ga.  
*Fine Arts, Manual Training, Psychology.*
- CLARKE, HAROLD AUGUSTUS....San Francisco, Cal.....419 West 118th Street  
Student, University of California, 2 years.  
*Chemistry, Physics.*
- CLAWSON, CORTEZ RANDOLPH.....Dunellen, N. J.  
Alfred University, Ph.B., 1892.  
Instructor, History and Greek, Salem College, W. Va.  
*History.*
- CLOHERTY, JAMES A.....Brooklyn, N. Y.....131st Street and Broadway  
Normal College, Amawalk, N. Y.  
Teacher, La Salle Institute, Troy, N. Y.  
*Education, Physics.*
- CODDINGTON, JESSIE T.....Brooklyn, N. Y.....113 West 90th Street  
Training School for Teachers, Brooklyn, N. Y., 1894.  
Student, Adelphi College, 2 years.  
Teacher, Training School for Teachers, Brooklyn, N. Y.  
*Education, English, Philosophy.*
- CODY, MARGARET.....Chicago, Ill.....292 Grand Avenue, Astoria, N. Y.  
Normal College, Albany, N. Y., 1 year.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 6, Borough of Queens, New York City.  
*Education, Geography.*
- COE, FRANK S.....East Orange, N. J.  
Normal School, Oswego, N. Y., 1893.  
Principal, P. S. No. 6, East Orange, N. J.  
*Education, German.*



- COFFIN, MARY ELIZABETH.....Asbury Park, N. J.....1230 Amsterdam Avenue  
New York University, Pd.M., 1894, Pd.D., 1896.  
Teacher, Sciences, High School, Asbury Park, N. J.  
*French, History, Mathematics.*
- COHEN, LOUIS J.....1867 Seventh Avenue  
College of the City of New York, B.S., 1899.  
New York University, M.S., 1902.  
Teacher, P. S. No. 39, New York City.  
*Chemistry.*
- COHEN, MORRIS RAPHAEL.....58 East 106th Street  
College of the City of New York, B.S., 1900.  
Teacher, P. S. No. 82, New York City.  
*Education, Philosophy, Psychology.*
- COLBURN, JESSIE BLIVEN.....8 West 103d Street  
Normal College, New York City, 1881.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 157, New York City.  
*Philosophy, Psychology.*
- COLEMAN, SAMUEL FREDERICK.....320 West 37th Street  
College of the City of New York, B.S., 1898.  
Columbia University (Summer Session, 1901).  
Teacher, Manual Training, P. S.'s Nos. 11 and 80, New York City.  
*Education, Philosophy.*
- COLLARD, ARTHUR WARREN.....Dover, N. J.....1230 Amsterdam Avenue  
University of Rochester, A.B., 1899.  
Teacher, Chapin Collegiate School, New York City.  
*Mathematics, Physics.*
- COMSTOCK, WILLIAM PHILLIPS.....460 West 150th Street  
Student, Columbia University, 3 years.  
*Spanish.*
- CONBOY, FRANCIS MICHAEL.....630 West 149th Street  
College of the City of New York, 1 year.  
Teachers College (Columbia University), 2 years.  
Columbia University (Summer Session, 1900).  
Teacher, P. S. No. 43, New York City.  
*Education, Psychology.*
- CONKLIN, DAISY JEAN....."The Berkshire," 125th Street and Eighth Avenue  
Normal College, New York City, B.S., 1895.  
Tutor, Mathematics and Physics, Normal College, New York City.  
*Chemistry.*
- CONNELL, JOHN WESLEY.....Montrose, Pa.....15 West 128th Street  
Syracuse University, A.B., 1898.  
Teacher, Latin, High School, Wilmington, Del.  
*Education, Latin.*
- CONNOLLY, EDNA WILLMOT.....30 West 84th Street  
Normal College, New York City, 1895.  
Teacher, P. S. No. 28, New York City.  
*Education.*
- CONRAD, GEORGE LOUIS.....Springfield, O.....1230 Amsterdam Avenue  
Teachers' Seminary, Woodville, O., 1894.  
Teacher, Zion's Lutheran Parish School, Springfield, O.  
*Education, English, Fine Arts.*
- CONWAY, JOSEPHINE.....Peekskill, N. Y.  
Normal School, New Paltz, N. Y., 1900.  
Teacher, Drum Hill High School, Peekskill, N. Y.  
*Mathematics.*
- COORSEN, ADELINE CLARA.....604 East 84th Street  
Normal College, New York City, A.B., 1897.  
New York University, 1 year.  
*Mathematics.*

- CORBET, WILLIAM WAKEFIELD. . . . . Brookville, Pa. . . . . 377 West 125th Street  
Yale University, Ph.B., 1900.  
Student, Columbia University, 1 year.  
*Chemistry.*
- CORNISH, HARRIET T. . . . . Gillette, N. J. . . . . 631 West 148th Street  
High School, Summit, N. J., 1900.  
Teacher, Collegiate School, Passaic, N. J. -  
*Education, Manual Training.*
- COUCH, CATHERINE KYBURG. . . . . Amherst, Mass. . . . . 161 West 105th Street  
Pratt Institute, 1894.  
Teacher, Drawing, Turners Falls, and Amherst, Mass.  
*Manual Training.*
- COWEN, CHARLES H. . . . . Dwight School, New York City, 1902. . . . . 302 West 104th Street  
*French, Mathematics, Physics.*
- COWING, WALTER SCOTT. . . . . Germantown, Phila., Pa. . . . . 5 West 125th Street  
Director of Physical and Manual Training, Friends' School, Germantown,  
Phila., Pa.  
*Manual Training, Physical Training.*
- COZIN, ADELE. . . . . 1108 Bloomfield Street, Hoboken, N. J.  
Student, Teachers College (Columbia University), 2 years.  
Columbia University (Summer Session, 1901).  
*Fine Arts, Mathematics, Philosophy.*
- CRABBE, LELIA BELLE. . . . . Saginaw, Mich. . . . . "Ferndale," Ridgewood, N. J.  
Saginaw Training School, Mich., 1880.  
Teacher, Manual Training, Public Schools, Saginaw, Mich.  
*Manual Training.*
- CRANE, WILLIAM ALBERT. . . . . 18 Prospect Street, Stapleton, N. Y.  
Gunton's School of Social Economics, 1894.  
Extension Student, Teachers College (Columbia University), 3 years.  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, P. S. No. 13, Tompkinsville, N. Y. City.  
*Education, English, Philosophy.*
- CREMINS, JULIA CECILIA. . . . . 1230 Amsterdam Avenue  
Normal College, New York City, 1883.  
Teacher, Manual Training, Public Schools, New York City.  
*Education, English.*
- CROSSON, ANNA G. . . . . 2045 Boston Road  
Normal College, New York City, 1890.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 63, New York City.  
*Education.*
- CULLEN, KATHLEEN MARY. . . . . 376 Clinton Street, Brooklyn, N. Y.  
Pantasaph Academy, North Wales, England, 1888.  
Teacher, P. S. No. 13, Brooklyn, N. Y.  
*English, Physical Training.*
- CULLEN, WINIFRED TERESA. . . . . 376 Clinton Street, Brooklyn, N. Y.  
Training College, Liverpool, England, 1885.  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, P. S. No. 56, Brooklyn, N. Y.  
*Physical Training.*
- CULLIVAN, ANNIE E. . . . . 136 East 54th Street  
Normal College, New York City, 1 year.  
Cornell University (Summer Session, 1901).  
Teacher, P. S. No. 168, New York City.  
*Education, Psychology.*
- CUNNINGHAM, JAMES B. . . . . Birmingham, Ala. . . . . 243 W. 42d Street  
State Normal College, Florence, Ala., 1886.  
Principal, High School, Birmingham, Ala.  
*Education, English, Psychology.*

- CUTTER, EMMA A. .... Carlisle, Pa. .... 113 West 103d Street  
Public School, Amherst, Mass., 1873.  
Teacher, Indian School, Carlisle, Pa.  
*Education.*
- CUTTING, MARGARET (Mrs.). .... Philadelphia, Pa. .... 1230 Amsterdam Avenue  
Temple College, 1897.  
Drexel Institute, 1 year.  
Teacher, Manual Training, Special School No. 2, Philadelphia, Pa.  
*Manual Training, Psychology.*
- DAKIN, CARRIE AUGUSTA. .... 370 St. Nicholas Avenue  
Public School No. 3, 1886.  
Private Teacher.  
*Education.*
- DAMERON, JULIA MANGUM. .... Inez, N. C. .... 1230 Amsterdam Avenue  
Ridgeway High School, 1 year.  
North Carolina Normal College, 1898.  
Teacher, English, State Normal College, Greensboro, N. C.  
*Education, English.*
- DAVIDOFF, HENRY. .... 283 West 118th Street  
College of the City of New York, A.B., 1899.  
Student, Columbia University, 1 year.  
Teacher, P. S. No. 16, New York City.  
*English.*
- DAVIDSON, BESSIE. .... Waco, Texas. .... 231 East 68th Street  
Texas Summer Normal School, 1896.  
Columbia University (Summer Session, 1901).  
Teacher, Public School, Waco, Texas.  
*Education, Physical Training.*
- DAVIES, DAISY DE FRECE. .... 104 West 90th Street  
Normal College, New York City, 1886.  
Teacher, P. S. No. 84, New York City.  
*Education, Physical Training.*
- DAVIS, ALICE. .... 1230 Amsterdam Avenue  
Mt. Carroll Seminary, 2 years.  
Chicago University, Ph.B., 1899.  
Student, Columbia University, 1 year.  
Teacher, History, Wadleigh High School, New York City.  
*English, Fine Arts.*
- DAVIS, JANE S. .... Pittsburgh, Pa. .... 419 West 118th Street  
Student, Women's College, Baltimore, Md., 1 year.  
Teacher, Public Schools, Pittsburgh, Pa.  
*Biology, Education, English.*
- DEE, WILLIAM B. .... Savona, N. Y. .... 416 West 118th Street  
Normal School, Buffalo, N. Y., 1 year.  
Principal, Public School, La Junta, Cal.  
*Chemistry, Mathematics, Physics.*
- DEEM, ANNA. .... Sabina, Ohio. .... 417 West 118th Street  
Antioch College, 4 years.  
Ohio Wesleyan University, Lit.B., 1899.  
Teacher, English, High School, Tracy, Minn.  
*Education, English, Fine Arts.*
- DEMING, ANNA IMOGEN. .... Ann Arbor, Mich. .... 1230 Amsterdam Avenue  
Private Instruction.  
*Manual Training.*
- DEMPSEY, JOHN JOSEPH. .... 106 East 55th Street  
St. Francis College, B.S., 1899.  
New York University, A.M., 1902.  
Harvard University (Summer Session, 1899).  
Teacher, P.S., No. 74, New York City.  
*Education.*

- DENYSE, LOUISE VITT.....10 Wright Street, Stapleton, N. Y.  
Teacher, P. S. No. 14, Richmond Borough, New York City.  
*Fine Arts, Spanish.*
- DESMOND, JOHN J.....Bayside, New York City.....88 Walker Street  
*Physics.*
- DICKERSON, MARY V.... Washington, D. C.....104 West 134th Street  
Normal School, Washington, D. C.  
Teacher, Public Schools, Washington, D. C.  
*Education.*
- DIMMICK, WILLIAM WARREN.....Ossining, N. Y.  
Normal School, Oneonta, N. Y., 1898.  
New York University, 1 year.  
Teacher, Mt. Pleasant Academy, Ossining, N. Y.  
*Education, Philosophy.*
- DIONNE, GUSTAVE-ADOLPHE LEO.....1161 Amsterdam Avenue  
Wooster University, A.B., 1893.  
Columbia University, A.M., 1901.  
Instructor, Berkeley School, New York City.  
*Spanish.*
- DONNAN, MAY W. (Mrs.).....Indianapolis, Ind.....154 West 133d Street  
University of Chicago.  
Private Teacher, History and Literature.  
*English.*
- DONNELLY, THOMAS FRANCIS.....412 West 149th Street  
Student, DeWitt Clinton High School, 2 years.  
*Chemistry, Mathematics.*
- DOWD, ELEANOR M.....439 West 123d Street  
Mt. Holyoke College, 1 year.  
State Normal School, Oswego, N. Y., 1890.  
Columbia University (Summer Session, 1900).  
Extension Student, Teachers College (Columbia University), 3 years.  
Teacher, P. S. No. 8, Borough of Queens, New York City.  
*History, Psychology.*
- DRISCOLL, MARY D.....West Taghkanic, N. Y.....314 West 19th Street  
Normal College, Albany, N. Y., 1891.  
*English, Fine Arts, Physics.*
- DRYFOOS, WALTER SCOTT.....1326 Madison Avenue  
Columbia University, A.B., 1896.  
New York Law School, LL.B., 1899.  
Tutor, College of the City of New York.  
*English.*
- DUNCAN, DANIEL B.....87 Shelton Avenue, Jamaica, N. Y. City  
Upper Iowa University, Ph.B., 1890.  
Teacher, English, Columbia Grammar School, New York City.  
*Education, Mathematics.*
- DUNFORD, ELIZABETH A.....Syracuse, N. Y.....125 West 21st Street  
Syracuse University, 1900.  
Teacher, French, High School, Syracuse, N. Y.  
*Education, French, Manual Training.*
- DUTCHER, EVA OLIVE.....496 Third Street, Brooklyn, N. Y.  
Bryn Mawr College, 1 year.  
Columbia University, A.B., 1902.  
*Education.*
- DUVAL, ESTEN.....Lexington, Va.....1161 Amsterdam Avenue  
Private Instruction.  
Teacher, St. Mary's School, Garden City, N. Y.  
*Manual Training, Physical Training.*
- DWYER, ELLA L.....Worcester, Mass.....419 West 118th Street  
Normal School, Framingham, Mass.  
Women's Medical College, Philadelphia, Pa.  
Principal, Oxford Street School, Worcester, Mass.  
*Education.*

- DWYER, ELLEN CECILIA.....Hartford, Conn.....Yonkers, N. Y.  
State Normal School, New Britain, Conn., 1901.  
Teacher, Public Schools, Hartford, Conn.  
*Biology, Manual Training.*
- DYER, DANIEL PIKE.....West Durham, Me.....1230 Amsterdam Avenue  
Freeport High School, 1883.  
Sloid Training School, 1896.  
Student, Teachers College (Columbia University), 3 years.  
*Education, Manual Training.*
- EDDIE, ELIZABETH.....Denver, Col.....1230 Amsterdam Avenue  
Royal College of Music, London, 1893.  
*Physical Training.*
- EDWARDS, MARY WINIFRED.....Summit, N. J.  
Hamilton College, Hamilton, Canada, 1891.  
Teacher, Short Hills School, Short Hills, N. J.  
*Education.*
- EHMER, MARIE MARGOT.....97 Second Place, Brooklyn, N. Y.  
Training School for Teachers, Brooklyn, N. Y., 1891.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 13, Brooklyn, N. Y. City.  
*Psychology.*
- EICHBAUER, CECILE.....203 Lincoln Road, Brooklyn, N. Y.  
Northwestern University, Evanston, Ill., 2 years.  
Normal School, Jamaica, N. Y., 1900.  
Teacher, P. S. No. 57, Borough of Queens, New York City.  
*Mathematics, Philosophy.*
- EICHE, JULIA L.....446 East 85th Street  
Normal College, New York City, 2 years.  
New York University, 1 year.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 53, New York City.  
*Education.*
- EICHMANN, ANDREW E.....49 St. Felix Street, Brooklyn, N. Y.  
St. John's College, A.B., 1891.  
College of St. Francis Xavier, A.M., 1897, honoris causa.  
Principal, P. S., No. 97, Brooklyn, N. Y.  
*Education, English.*
- ELLIS, GEORGE SHELDON.....Roselle, N. J.  
Colgate Academy, 1889.  
Brown University, Ph.B., 1894.  
Principal, Public Schools, Roselle, N. J.  
*Education, History.*
- ELSBERG, ALBERT MARION.....105 East 57th Street  
Student, Columbia University, 1 year.  
*English, Mathematics.*
- ELSWORTH, HAROLD J.....Irvington, N. Y.....604 West 114th Street  
Student, Columbia University, 2 years.  
*English, German.*
- ENNIS, MARY GERALDINE MURRAY.....31 First Place, Brooklyn, N. Y.  
Student, St. Elizabeth College, 6 years.  
*Education.*
- ENRIGHT, JULIA.....Long Branch, N. J.....112 East 89th Street  
New Jersey State Normal School, 1 year.  
Teacher, Mathematics, Long Branch, N. J.  
*Mathematics.*
- ENSEYN, HARRIET M.....35 Irving Place, Redbank, N. J.  
Claverack College, A.B., 1882.  
Teacher, English, High School, Redbank, N. J.  
*Education, English, Mathematics.*

- ESCHE, ALFRED EUGEN.....2 Walker Street  
Student, University of Leipzig, 1 year.  
*English, Geography.*
- ESSELSTYN, FLORENCE C.....Mellenville, N. Y.....1161 Amsterdam Avenue  
Claverack College, A.B., 1879.  
School of Expression, Boston, Mass., 1892.  
Harvard University (Summer Session, 1900).  
Teacher, English, High School, Schenectady, N. Y.  
*English.*
- EVANS, DANIEL BUDD.....458 Hancock Street, Brooklyn, N. Y.  
Morris Academy, 4 years.  
Columbia University (Summer Session, 1901).  
Supervisor of Schools, Rockaway, N. J.  
*English, Mathematics.*
- EVERETT, CHARLOTTE CRITTENDEN.....Williamsport, Pa.....181 West 81st Street  
Dickinson Seminary, Williamsport, Pa., B.S., 1892.  
Teacher, Psychology and Literature, Dickinson Seminary.  
*Psychology.*
- FAIRFIELD, CORA D.....Milwaukee, Wis.....1230 Amsterdam Avenue  
Hailmann Kindergarten Training School, 1892.  
Chicago Sloud School, 1900.  
Teacher, Manual Training, School for the Deaf, Milwaukee, Wis.  
*Manual Training.*
- FAY, MAMIE.....Hillside Avenue, Corona, L. I.  
High School, Flushing, N. Y., 1889.  
New York University, 1 year.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 12, Borough of Queens, New York City.  
*Education, English.*
- FICHANDLER, ALEXANDER.....134 East 101st Street  
Student, College of the City of New York, 4 years.  
Teacher, P. S. No. 2, New York City.  
*Education, Psychology.*
- FIELD, LILLIAS J.....269 West 136th Street  
Model School, Trenton, N. J., 4 years.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 103, New York City.  
*Education.*
- FIELD, MARIA LOUISE.....Boston, Mass.....1230 Amsterdam Avenue  
Normal School, Boston, Mass., 5 years.  
Clark University (Summer Session, 1898).  
Teacher, Massachusetts Normal Art School, Boston, Mass.  
*Education, Fine Arts.*
- FINK, COLIN GARFIELD.....133 West 85th Street  
Student, Columbia University, 3 years.  
*Chemistry.*
- FISCHER, ELIZABETH.....College Point, N. Y.....18 East 127th Street  
Training School, Hamilton, Ont., 1889.  
Teacher, P. S. No. 178, New York City.  
*English, Geography, History.*
- FISHPAW, CLARA B.....Cockeysville, Md.....74 West 124th Street  
Maryland State Normal School, 1893.  
Central University, Ind., A.B., 1897.  
Maryland College of Expression, B.E., 1899.  
Principal, Western Run School, Baltimore County, Md.  
*Education, Psychology.*
- FITCH, JAMES HENRY ARTHUR.....708 East 139th Street  
Cooper Union, 3 years.  
Columbia University (Summer School, 1901).  
Teacher, P. S. No. 43, New York City.  
*Philosophy, Psychology.*

- FITCH, RUSSEL MARTIN.....South Amboy, N. J.  
State Normal School, Fredonia, N. Y., 1888.  
Pennsylvania State College, 1 year.  
Columbia University (Summer Session, 1901).  
Principal, Public Schools, South Amboy, N. J.  
*Education, English, Psychology.*
- FLAGLER, FRANCES HAMLIN.....Brooklyn, N. Y.....417 West 118th Street  
Anderson Normal School of Physical Training, 1893.  
Harvard University (Summer Session, 1895).  
Teacher, Physical Training, Adelphi College.  
*Education, Physical Training.*
- FLOWERS, JOSEPHINE WATSON (Mrs.).....Arlington, N. J.  
Normal College, New York City, 1880.  
Columbia University (Summer Session, 1900).  
Teacher, P. S. No. 83, New York City.  
*Education, French, History.*
- FOOTE, SUSAN LOUISA BOWLER...Cincinnati, Ohio.....1230 Amsterdam Avenue  
University of Cincinnati, B.S., 1898.  
Teacher, Miller School, Avondale, Cincinnati, Ohio.  
*Biology, Education.*
- FORD, ELLEN VERONICA.....368 Gold Street, Brooklyn, N. Y.  
Student, Nativity Academy, Brooklyn, N. Y.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 5, Brooklyn, N. Y.  
*Education, English.*
- FOX, S. WORDSWORTH.....89 West 134th Street  
College of the City of New York, A.B., 1897.  
New York University, 2 years.  
Teacher, P. S. No. 3, New York City.  
*Mathematics.*
- FOX, WILLIS ALFRED.....Albion, Ind.....416 West 118th Street  
Michigan Agricultural College, B.S., 1891.  
Columbia University (Summer Session, 1901).  
Superintendent, Public Schools, Albion, Ind.  
*Psychology.*
- FRANCIS, CARRIE BELLE.....Indianapolis, Ind.....522 West 123d Street  
Normal School, Indianapolis, Ind., 1901.  
Teacher, P. S. No. 16, Indianapolis, Ind.  
*Education, Fine Arts, Manual Training.*
- FRANCIS, JANE.....1230 Amsterdam Avenue  
Teacher, Wells School, Chicago, Ill.  
*Education, Geography.*
- FRAWLEY, MARY E.....180 East 95th Street  
Normal College, New York City, 1884.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 109, New York City.  
*Education.*
- FREEMAN, ELLA JOSEPHINE.....2011 Madison Avenue  
St. Mary's School.  
Columbia University (Summer Session, 1901).  
Teacher, English and Mathematics, Lyndon Hall, Poughkeepsie, N. Y.  
*History.*
- FREIDENRICH, OSCAR W.....26 West 97th Street  
College of the City of New York, A.B., 1899.  
Teacher, P. S. No. 27, New York City.  
*Physical Training.*
- FRENZEN, WILHELM.....241 North High Street, Mt. Vernon, N. Y.  
Gymnasium, München-Gladbach, Germany, 7 years.  
Theol. Seminary, Barmen, Germany, 5 years.  
Union Theological Seminary, 1897.  
Columbia University (Summer Session, 1901).  
*Education, German.*

- FRIEDLAND, JACOB M. .... 207 East 3d Street  
College of the City of New York, B.S., 1900.  
Teacher, Mathematics, Hebrew Technical Institute, New York City.  
*Physics.*
- FRIEDMAN, SAMUEL ..... 439 West 123d Street  
College of the City of New York, 3 years.  
New York University, LL.B., 1895; Pd.M., 1899.  
Teacher, P. S. No. 58, New York City.  
*English, Geography.*
- FRISBEE, HARRY DUBOIS ..... 1340 Fulton Avenue, Bronx Borough, New York City  
College of the City of New York, A.B., 1891.  
Columbia University, E.E., 1894.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 61, Bronx Borough, New York City.  
*Education, Physical Training.*
- FRISCH, EPHRAIM ..... Cincinnati, Ohio. 169 Palisade Avenue, Union Hill, N. J.  
Hebrew Union College, B.H., 1900.  
University of Cincinnati, 2 years.  
*English, Physics, Spanish.*
- FROST, HELEN VINCENT ..... 29 East 2d Street, Mt. Vernon, N. Y.  
Normal School, New Haven, Conn., 1890.  
Student, Teachers College (Columbia University), 1 year.  
*Education, English.*
- FRY, EDNA LOUISE ..... Bath Beach, N. Y.  
Girls' High School, Brooklyn, N. Y., 1899.  
Student, Columbia University, 3 years.  
*History, Philosophy.*
- FUHRER, BERTHA ..... Pittsburgh, Pa. .... 1230 Amsterdam Avenue  
Student, Curry University, 3 years.  
Teacher, Elocution and Literature, King's School of Oratory.  
*Education, Fine Arts, Physical Training.*
- FULD, LEONHARD FELIX ..... 130 East 110th Street  
Student, Columbia University, 1 year.  
*German, Mathematics, Physical Training.*
- GALVIN, FRANCIS E. .... 2066 Madison Avenue  
La Salle Academy, 3 years.  
Teacher, Public Schools, New York City.  
*Education, Psychology.*
- GARDNER, EDITH MAY ..... 120 West 97th Street  
New York City Public Schools, 1893.  
*English.*
- GATLEY, HENRY STEVENS ..... Warsaw, N. Y. .... St. Thomas's Church, Bushwick  
Avenue and Cooper Street, Brooklyn, N. Y.  
Hobart College, A.B., 1890, A.M., 1894.  
Berkeley Divinity School, 3 years.  
*English, History, Philosophy, Physical Training.*
- GIBNEY, ELIZABETH A. .... 472 West 150th Street  
Normal College, New York City, 1895.  
Teacher, P. S. No. 52, New York City.  
*Geography, History.*
- GIDEON, SAMUEL E. .... Columbus, Ga. .... 118 West 111th Street  
Manual Training School, Louisville, Ky., 1894.  
Lewis Institute, Chicago, Ill. (Summer Session, 1898).  
Supervisor, Manual Training and Drawing, Public Schools, Columbus, Ga.  
*Biology, Fine Arts, Manual Training.*
- GILBERT, ESTELLE ..... 251 West 24th Street  
Academy of Paris, superior diploma.  
Teacher, Gardner School, New York City.  
*English.*
- GILVEY, EDWARD PATRICK ..... Manhattan College, New York City  
Normal College, Amawalk, N. Y., 2 years.  
Teacher, Manhattan College, New York City.  
*Chemistry, Education, Physics.*



- GINSBURGH, EDWARD LYON.....11 West 112th Street  
Student, Cornell University, 1 year.  
*Chemistry, Physics.*
- GOODELL, JOSEPH EDWARD.....3134 Broadway  
Franklin and Marshall College, A.B., 1894.  
Student, Columbia University, 1 year.  
*Chemistry.*
- GOODSELL, WILLYSTINE.....Naugatuck, Conn.....1230 Amsterdam Avenue  
Welch Training School, New Haven, Conn., 1891.  
*English.*
- GRAVES, JAMES MARTIN.....Waddington, N. Y.....57 East 122d Street  
State Normal and Training School, Potsdam, N. Y., 1888.  
*Mathematics.*
- GRAY, TEMPERANCE.....516 Nostrand Avenue, Brooklyn, N. Y.  
State Normal School, Oswego, N.Y., 1890.  
Harvard University (Summer Session, 1900).  
Teacher, P. S. No. 43, Brooklyn, N. Y.  
*German.*
- GREENE, CLARA W.....Newark, N. J.  
Glenwood Institute, Matawan, N. J., 1 year.  
New York University, 3 years.  
Vice-Principal, High School, Newark, N. J.  
*English, Fine Arts.*
- GREENE, ETHEL A. V.....20 West 99th Street  
Student, Teachers College (Columbia University), 1 year.  
*Fine Arts, Manual Training, Physical Training, Psychology.*
- GRIFFITH, FRANCES BELLE.....St. Louis, Mo.....1230 Amsterdam Avenue  
Normal School, St. Louis, Mo., 1876.  
Supervisor, Primary Instruction, Public Schools, St. Louis, Mo.  
*Education, Geography.*
- GROW, FREDERIC S.....Rahway, N. J.....1230 Amsterdam Avenue  
University of Vermont, A.B., 1891.  
Teacher, Algebra and Physiology, De Witt Clinton High School, New York  
City.  
*Education, Mathematics.*
- GRUNDY, ELIZABETH.....Paterson, N. J.....1230 Amsterdam Avenue  
High School, Paterson, N. J., 1897.  
Teacher, Haledon, N. J.  
*German, Latin, Physical Training.*
- GUINZBURG, ELEANOR.....69 West 95th Street  
Normal College, New York City, 1878.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 165, New York City.  
*German.*
- GUYER, RAYMOND.....Lima, Peru.....358 West 123d Street  
Student, Columbia University, 3 years.  
Columbia University (Summer Session, 1900).  
*Chemistry, Mathematics.*
- HAAS, ARTHUR.....539 West 141st Street  
College of the City of New York, A.B., 1894.  
Cooper Union, B.S., 1898.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, P. S. No. 39, New York City.  
*Fine Arts, French, Physical Training.*
- HAAS, EDNA.....539 West 141st Street  
Normal College, New York City, A.B., 1898.  
Teacher, P. S. No. 96, New York City.  
*Mathematics, Physical Training.*
- HACKETT, IRENE A.....Dorchester, Mass.....417 West 118th Street  
Normal Training School, Springfield, Mass., 1895.  
Teacher, Horace Mann School.  
*Fine Arts, Geography, History.*

- HADDEN, SAMUEL MILO.....Greeley, Col.....419 West 118th Street  
Colorado State Normal School, Pd.B., 1897.  
Director, Manual Training, Colorado State Normal School.  
*Manual Training, Philosophy.*
- HAGELSTEIN, ANTONIE.....15 Harman Street, Brooklyn, N. Y.  
Training School for Teachers, Brooklyn, N. Y., 1891.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 75, Brooklyn, N. Y.  
*English, German.*
- HAGELSTEIN, LOTTE.....15 Harman Street, Brooklyn, N. Y.  
Training School for Teachers, Brooklyn, N. Y., 1893.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 74, Brooklyn, N. Y.  
*English, German.*
- HALE, ELIZABETH HELEN.....385 Franklin Avenue, Brooklyn, N. Y.  
Adephi College, A.B., 1902.  
Teacher, P. S. No. 23, Brooklyn, N. Y.  
*Education, English.*
- HALL, BERNICE KINGSTON.....Spokane, Wash.....3140 Broadway  
*Chemistry, English, German.*
- HALLIDAY, MABEL.....North Bend, Ohio.....417 West 118th Street  
Hughes High School, Cincinnati, Ohio, 1895.  
Instructor, Physical Training, University of Cincinnati.  
*Physical Training.*
- HALLOCK, ELIZABETH A.....495 Ninth Street, Brooklyn, N. Y.  
Friends' Seminary, New York City, 1893.  
Principal, Preparatory Department, Chappaqua Mt. Institute.  
*Chemistry, Physics.*
- HAND, WILLIAM FLOWERS.....Starkville, Miss.....355 West 119th Street  
Mississippi Agricultural and Mechanical College, B.S., 1893; M.S., 1895.  
Student, Columbia University, 1 year.  
Professor, Chemistry, Mississippi A. and M. College.  
*Physics.*
- HANSON, JEAN GORDON (Mrs.).....454 Manhattan Avenue  
Friends' Seminary, New York City, 1892.  
Cold Spring Laboratory, L. I. (Summer Course, 1901).  
Principal, Primary Department, New York Collegiate Institute, New York City.  
*Biology, Education.*
- HARDIN, ELIZABETH.....324 Bellville Avenue, Newark, N. J.  
Elmira College, A.B., 1892.  
New York University, A.M., 1900.  
Teacher, English, High School, Newark, N. J.  
*English, Latin.*
- HARREUS, SUSAN.....Stapleton, Richmond Borough, New York  
Normal School, New Paltz, N. Y., 1901.  
Teacher, High School, Goshen, N. Y.  
*English, German.*
- HARRIMAN, KATE.....Kansas City, Mo.....1230 Amsterdam Avenue  
St. Johnsbury Academy, Vermont, 1883.  
Columbia University (Summer Session, 1900).  
Harvard University (Summer Session, 1901).  
Teacher, Central High School, Kansas City, Mo.  
*Education, Mathematics.*
- HARRIS, ELIZABETH SARAH.....75 East 121st Street  
Normal College, New York City, 1884.  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, P. S. No. 144, New York City.  
*Education, German, Philosophy.*
- HARRISON, MARY AUGUSTA.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
Cornell University (Summer Session, 1900).  
Columbia University (Summer Session, 1901).  
Teacher, Public Schools, Brooklyn, N. Y.  
*German.*

- HARTMAN, HENRIETTA..... West Pittston, Pa.....419 West 118th Street  
Wilkes Barre Female Institute, 1896.  
*Education, English, Fine Arts.*
- HARTSFIELD, CLAUDIA VIRGINIA.....Atlanta, Ga.....1230 Amsterdam Avenue  
Lucy Cobb Institute, 1834.  
Teacher, Public Schools, Atlanta, Ga.  
*Education, English.*
- HASBROUCK, KATHERINE H.....Walden, N. Y. ...366 Decatur Street, Brooklyn, N. Y.  
State Normal School, Albany, N. Y., 1885.  
Teacher, High School, Glens Falls, N. Y.  
*Education, Physical Training.*
- HASTINGS, MONTANA.....Joplin, Mo.....417 West 118th Street  
Drake University, 1897.  
Superintendent, Public Schools, Joplin, Mo.  
*Education.*
- HATTON, JOHN GOODRICH.....14 East 109th Street  
Cooper Union, B.S., 1892.  
Nashotah Seminary, Wis., B.D., 1902.  
*Psychology.*
- HAVEN, LENA ORA.....Livingston, N. J.....1230 Amsterdam Avenue  
Orange High School, 1896.  
Teacher, High School, Livingston, N. J.  
*Education, English.*
- HECHT, FELIX.....Sussmann Avenue, Jamaica, N. Y.  
College of the City of New York, B.S., 1900.  
Columbia University (Summer Session, 1901).  
Columbia University, A.M., 1902.  
Teacher, P. S. No. 72, Brooklyn, N. Y.  
*English, German, Physical Training.*
- HEDGES, ANNA CHARLOTTE.....St. Louis, Mo.....1230 Amsterdam Avenue  
St. Louis Washington University, 2 years.  
Drexel Institute, 1899.  
Teacher, Domestic Science, Public Schools, St. Louis, Mo.  
*Education, Fine Arts, Manual Training, Psychology.*
- HEINTZE, RICHARD WILLIAM.....Hawthorne, N. Y.....302 Second Avenue  
Concordia Seminary, St. Louis, Mo., 1890.  
Teacher, Lutheran Concordia Middle Gymnasium, Hawthorne, N. Y.  
*German, History, Latin.*
- HELM, THADDEUS G.....Lancaster, Pa.....1230 Amsterdam Avenue  
Millersville State Normal School, B.E., 1888; M.E., 1890.  
Franklin and Marshall College, A.B., 1895; A.M., 1898.  
Principal, Franklin and Marshall Academy, Lancaster, Pa.  
*English, Psychology.*
- HEMINGWAY, HELEN LAURA.....McLean, N. Y.....1230 Amsterdam Avenue  
State Normal School, Cortland, N. Y., 1890.  
Teacher, P. S. No. 100, New York City.  
*Education, English.*
- HENDERSON, MAUD TRUXTUN.....New York City...429 Palisade Avenue, Yonkers, N. Y.  
Episcopal Female Institute, Winchester, Va., 1884.  
Training School for Nurses, 1891.  
*Biology, Education, Manual Training.*
- HENDRICKSON, CAROLINE.....Bridgeport, Conn.....306 West 94th Street  
Normal School, Oswego, N. Y., 1894.  
Student, Teachers College (Columbia University), 1 year.  
Supervisor, Primary Schools, Poughkeepsie, N. Y.  
*English, Psychology.*
- HENING, SARAH CARRINGTON.....Orange, N. J.....208 West 44th Street  
Vassar College, A.B., 1885.  
Private teacher.  
*Education.*
- HENKE, JOHN HENRY.....Shelbyville, Ind.....151 West 99th Street  
Indiana State Normal School, 1895.  
Indiana State University, A.B., 1896.  
Teacher, Latin and German, High School, Shelbyville, Ind.  
*German, Latin.*

- HENNESSEY, MICHAEL RICHARD . . . Cranford, N. J. . . 259 Eightieth Street, Brooklyn, N. Y.  
New Jersey State Normal School, 2 years.  
Teacher, P. S. No. 100, Brooklyn, N. Y.  
*English, Geography.*
- HENRY, JAMES MCCLURE . . . . . Canonsburg, Pa. . . . . 557 West 124th Street  
University of Wooster, A.B., 1901.  
Instructor, Alma College, Alma, Mich.  
*Education, Physical Training.*
- HENWOOD, WILLIAM J. . . . . 2340 Seventh Avenue  
College of the City of New York, A.B., 1892.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 61, New York City.  
*Education, Physics.*
- HERRIET, HEBE ADELE . . . . . 727 East 143d Street  
New York University, 1 year.  
Cornell University (Summer Session, 1900).  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 85, New York City.  
*Education, Psychology.*
- HERRMANN, BERTHA . . . . . 66 Greenville Avenue, Jersey City, N. J.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 20, Jersey City, N. J.  
*German.*
- HERSHEY, FRANCES GENEVIEVE . . . . . Sterling, Ill. . . . . 430 West 118th Street  
Wellesley College, A.B., 1896.  
Harvard University (Summer Session, 1900).  
Teacher, High School, Sterling, Ill.  
*Education, English.*
- HIDEY, EVERETT A. . . . . Arlington, Md. . . . . 419 West 118th Street  
Maryland State Normal School, 1899.  
Teacher, Manual Training, Carroll County, Md.  
*Fine Arts, Manual Training.*
- HIGGINS, JAMES BUREN . . . . . Indianapolis, Ind. . . . . 1230 Amsterdam Avenue  
Indiana University, 1 year.  
Princeton University, 1 year.  
*French, Mathematics.*
- HILLS, WILLIAM FORREST . . . . . 321 West 116th Street  
Student, Columbia University, 3 years.  
*Philosophy.*
- HIMES, OLIVE R. . . . . 28 Homestead Park, Newark, N. J.  
High School, Albany, N. Y., 1896.  
Teachers College (Columbia University), 1900.  
Supervisor, Manual Training, Public Schools, Greenfield, Mass.  
*Manual Training.*
- HIRSCH, BLANCHE . . . . . 944 Park Avenue  
Normal College, New York City, B.S., 1901.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, Park Avenue School, New York City.  
*Education, Philosophy.*
- HIRSDANSKY, SIMON . . . . . 10 East 103d Street  
College of the City of New York, B.S., 1899.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 82, New York City.  
*English, Mathematics, Physical Training.*
- HOAG, HELEN ELISABETH . . . . . West Danby, N. Y. . . . . 147 Avenue B  
Cornell University, A.B., 1894.  
Instructor, Latin, Mt. Holyoke College.  
*Fine Arts, Latin.*
- HOCHLEITNER, LOUISE . . . . . 520 West 123d Street  
University of Chicago, 1 year.  
Chautauqua College, 1 year.  
Student, Teachers College (Columbia University), 1 year.  
*Education.*

- HOEFLING, CAROLINE ELIZABETH.....590 East 135th Street  
Normal College, New York City, 1888.  
Harvard University (Summer Session, 1899).  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, P. S. No. 153, New York City.  
*Education.*
- HOEPPNER, ELIZABETH THERESE.....984 Tinton Avenue  
Normal College, New York City, A.B., 1896.  
Teacher, P. S. No. 145, New York City.  
*Education, Physical Training.*
- HOFFMAN, LEWIS WALLACE.....Warwick, N. Y.....1270 Amsterdam Avenue  
Ohio University, Ph.B., 1890; Ph.M., 1893; Pd.B., 1899.  
Principal, Public School, Warwick, N. Y.  
*Education, French.*
- HOLLAND, NINA R.....Salem, Va.....1230 Amsterdam Avenue  
Roanoke College, A.B., 1899; A.M., 1900.  
Columbia University (Summer Session, 1901).  
Professor, Latin and English, Elizabeth College, Charlotte, N. C.  
*English, Latin.*
- HOLMQUIST, GUSTAVE S.....2790 Broadway  
De Witt Clinton High School, 2 years.  
*Chemistry, Mathematics.*
- HOOPER, SARAH ELSTAN.....Elmhurst, Queens Borough, New York  
Normal School, Oswego, N. Y., 1891.  
Teacher, Elmhurst, N. Y. City.  
*Education, Physical Training.*
- HOOVER, ORA CAROLINE.....Concord, N. C.....1230 Amsterdam Avenue  
Irving College, B.S., 1897.  
Teacher, Public School, Concord, N. C.  
*English.*
- HOPKINS, RUPERT HENRY.....45 Post Avenue, Port Richmond, S. I., N. Y.  
Wesleyan University, B.S., 1894; M.S., 1896.  
Teacher, High School, Port Richmond, S. I., N. Y. City.  
*Mathematics, Physics.*
- HORGAN, MARY HELENA BOTHWELL.....43 East 59th Street  
Art Students' League, 5 years.  
Harvard University (Summer Session, 1897).  
Lecturer, Art, Mrs. Finch's School for Girls, New York City.  
*Fine Arts.*
- HOUGHTON, HERBERT PIERREPONT.....Stamford, Conn.  
Amherst College, A.B., 1901.  
Teacher, German, Chestnut Hill Academy, Philadelphia, Pa.  
*French.*
- HOWE, GRACE RICHARDS.....Brooklyn, N. Y.....Noroton Heights, Conn.  
Private instruction.  
*English, History, Psychology.*
- HOYT, JEANNIE MARINA.....20 Barbey Street, Brooklyn, N. Y.  
Training School for Teachers, Brooklyn, N. Y., 1896.  
Teacher, P. S. No. 84, Brooklyn, N. Y.  
*Physical Training.*
- HUBBARD, SARAH GWENNIE.....Logan, Utah.....172 West 81st Street  
Brigham Young College, 1897.  
Pratt Institute, 1 year.  
*Chemistry, Education, Psychology.*
- HUGHES, MARK H.....Manhattan College, New York City  
Normal College, Amawalk, N. Y., 1 year.  
Teacher, Manhattan College, New York City.  
*Education, Physics.*
- HUNT, EMELINE KEELER.....Poughkeepsie, N. Y.....1230 Amsterdam Avenue  
Vassar College, A.B., 1889.  
Columbia University (Summer Session, 1900).  
Teacher, English, High School, Poughkeepsie, N. Y.  
*Education, English.*

- HUNTER, JEANNETTE B. .... Thompsonville, Conn. .... 1230 Amsterdam Avenue  
Normal School, New Britain, Conn., 1893.  
Teacher, Public Schools, Hartford, Conn.  
*Geography.*
- HUSSEY, KATHERINE L. .... Hartford, Conn. .... 520 West 123d Street  
Teacher, Manual Training, Public Schools, New York City.  
*Fine Arts, Manual Training, Spanish.*
- HUSTED, MARY IRVING. .... 430 West 118th Street  
Smith College, 1891.  
Teachers College (Columbia University), 1893.  
Teacher, Brooklyn Heights Seminary.  
*Education, English, French.*
- HUTTON, J. GERTRUDE. .... 4 Essex Avenue, Orange, N. J.  
Normal School, Potsdam, N. Y., 1892.  
Teacher, High School, West Orange, N. J.  
*Manual Training.*
- HYDE, MARY BACKUS. .... Yantic, Conn. .... 1230 Amsterdam Avenue  
Pratt Institute, Brooklyn, N. Y., 1902.  
*Manual Training.*
- HYLAND, JOHN. .... Toledo, Ohio. .... 131st Street and Broadway  
St. Joseph's Normal School, 4 years.  
Teacher, St. Francis School, Toledo, Ohio.  
*Education, Spanish.*
- HYNES, HELEN MARIE. .... 174 West 94th Street  
Normal College, New York City, 1894.  
Student, Teachers College (Columbia University), 1 year.  
*Education.*
- INGALSBE, MYRA L. .... Hartford, N. Y. .... 14 East 16th Street  
School Commissioner, Washington Co., N. Y.  
*Education.*
- IRVING, SYLVIA. .... 482 Mott Avenue  
Training School for Teachers, Brooklyn, N. Y., 1896.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 33, Brooklyn, N. Y.  
*Education, German, History.*
- ISAAC, CARRIE NORA. .... Brunswick, Ga. .... 102 West 69th Street  
*English, Fine Arts, Psychology.*
- ISRAELI, PHINEAS. .... 736 Lexington Avenue  
College of the City of New York, A.B., 1897.  
Columbia University (Summer Session, 1901).  
Teachers College (Columbia University), 1902.  
*Latin.*
- JACKSON, MARTHA. .... 345 Manhattan Avenue  
Normal College, New York City, 1881.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 1 year.  
*Education, Geography.*
- JACOBY, EMILIE. .... 152 West 129th Street  
Normal College, New York City, 1883.  
Teacher, P. S. No. 83, New York City.  
*Education, German.*
- JOHNSON, FREDERICK CARTER, Tallahassee, Fla., 315 Halliday Street, Jersey City, N. J.  
Armour Institute of Technology, B.S., 1897.  
Supervisor, Mechanical Department, Florida State Normal and Industrial  
School, Tallahassee, Fla.  
*Education, Manual Training.*
- JOHNSON, HILMA A. .... 222 West 39th Street  
Normal College, New York City, 1874.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, Elementary School, New York City.  
*Geography, History.*
- JOHNSTON, EDWIN MADSON. .... Matteawan, N. Y.  
High School, Matteawan, N. Y., 1902.  
*Chemistry, Mathematics.*

- JONES, ELIZABETH EDWARDS.....417 West 118th Street  
 High School, Quincy, Mass., 1887.  
 Columbia University (Summer Session, 1901).  
 Teacher, The Misses Masters' School, Dobbs Ferry, N. Y.  
*Education, Fine Arts, Psychology.*
- JONES, HARRIET L.....Wilkes Barre, Pa.....1230 Amsterdam Avenue  
 Wilkes Barre Female Institute, 1888.  
 Student, Teachers College (Columbia University), 3 years.  
 Biological Laboratory, Cold Spring Harbor, L. I. (Summer, 1901).  
 Teacher, Oldfields School, Glencoe, Md.  
*Biology, Education.*
- JONES, VIRGINIA.....2164 Seventh Avenue  
 Normal College, New York City, 1881.  
 Teacher, P. S. No. 155, New York City.  
*Education, English.*
- JOSEPH, SAMUEL.....1369 Fifth Avenue  
 College of the City of New York, A.B., 1902.  
*English, Philosophy.*
- KAHLER, LOUISE ELIZABETH.....Conneaut, O.....1230 Amsterdam Avenue  
 Pennsylvania State Normal School, B.E.D., 1885.  
 University of Chicago (Summer Sessions, 1897, 1898, 1899).  
 Principal, High School, Conneaut, O.  
*Mathematics.*
- KANE, MARTHA A.....167 Congress Street, Brooklyn, N. Y.  
 Packer Collegiate Institute, 4 years.  
 Teacher, P. S. No. 13, Brooklyn, N. Y.  
*Geography, Philosophy.*
- KANTER, JOSEPH BERNARD.....73 East 3d Street  
 Cornell Medical College, New York City, 1 year.  
*Chemistry, Physics.*
- KEANE, ELLEN G.....13 East 98th Street  
 Kingston Academy and Training Class, 1888.  
 Teacher, P. S. No. 31, New York City.  
*Biology, Education, Physical Training.*
- KEPER, SOPHIE.....Bala, Pa.....2191 Seventh Avenue  
 Normal School, Millersville, Pa., A.B., 1894.  
 University of Pennsylvania, 1 year.  
 Principal, Bala School, Bala, Pa.  
*Psychology.*
- KEMP, LENA.....150 East 56th Street  
 Normal College, New York City, 1889.  
 Columbia University (Summer Session, 1901).  
 Teacher, P. S. No. 75, New York City.  
*Education, English.*
- KENDRICK, MINNIE.....Waco, Texas.....417 West 118th Street  
 Baylor University, 1892.  
 Columbia University (Summer Session, 1901).  
 Teacher, Public Schools, Waco, Tex.  
*Education, Physical Training.*
- KENNA, CHARLOTTE.....Larchmont, N. Y.  
 Pratt Institute, 1894.  
 New York Preparatory School, 1902.  
 Teacher, Sewing, Public Schools, New York City.  
*Fine Arts, Manual Training.*
- KENNEDY, MARY STEWART.....124 West 126th Street  
 New York University, Pd.M., 1899.  
 Adelphi College, A.B., 1901.  
 New York University, Pd.D., 1902.  
 Columbia University, A.M., 1902.  
 Instructor, English Literature, Normal College, New York City.  
*German, Spanish.*
- KENNY, JOSEPHINE WECKERLE.....314 West 89th Street  
 Normal College, New York City, 1888.  
 Columbia University (Summer Session, 1901).  
 Teacher, P. S. No. 95, New York City.  
*History.*

- KERBY, MARY J. .... 2038 Bathgate Avenue  
Normal College, New York City, 1880.  
*Education, English.*
- KING, ISABEL PECK (Mrs.) .... 115 West 94th Street  
Student, Oak Hill School, Oak Hill, N. Y.  
*Education, English, Fine Arts.*
- KING, JAMES MOORE .... Nashville, Tenn. .... 1161 Amsterdam Avenue  
University of Nashville, B.S., 1892 ; M.D., 1896.  
*Physics.*
- KING, SYLVESTER .... Lansing, Mich. .... 1272 Amsterdam Avenue  
Northwestern School of Oratory, Northwestern University, 1899.  
Professor, English, Agricultural College, Mich.  
*English, Psychology.*
- KINSEY, REGINALD GEORGE .... 520 West 123d Street  
Student, Columbia University, 1 year.  
*Mathematics.*
- KLEMMANN, ANNA WINSLOW .... 172d Street and Topping Avenue  
St. Teresa Academy, 1899.  
New York Training School for Teachers, 1902.  
Teacher, Public Schools, New York City.  
*Biology, Education, German.*
- KOVARSKY, ABRAHAM .... 137th Street and Amsterdam Avenue  
College of the City of New York, B.S., 1901.  
Teacher, Hebrew Orphan Asylum, New York City.  
*English, Fine Arts, Psychology.*
- KREINER, LILLIAN MAY .... 62 Oriental Street, Newark, N. J.  
Normal School, Newark, N. J., 1894.  
Vice-Principal, Primary Department, Sussex Ave. P. S., Newark.  
*Education.*
- KRUSE, AMY .... 123 Park Avenue, Hoboken, N. J.  
Normal School, Trenton, N. J., 1902.  
Teacher, P. S. No. 89, New York City.  
*Biology, Mathematics.*
- LA FAYETTE, FAY M. .... 522 West 123d Street  
Williams College, A.B., 1892.  
Teacher, Mathematics, Bethlehem, Pa.  
*Education, Mathematics, Physics.*
- LAFFER, OSCAR .... 129 East 4th Street  
De Witt Clinton High School, New York City, 1900.  
*Physics.*
- LAIDLAW, MARGARET C. .... Hartford, Conn. .... 417 West 118th Street  
Mechanics' Institute, Rochester, N. Y., 1889.  
St. Andrew's Kindergarten Training School, Rochester, N. Y., 1892.  
Supervisor, Kindergartens, Hartford, Conn.  
*Education, English, German.*
- LAMB, ALICE L. .... Ozone Park, N. Y. City. .... 1230 Amsterdam Avenue  
State Normal College, Albany, N. Y., 1888.  
Teacher, P. S. No. 59, Borough of Queens, New York City.  
*Education, Geography.*
- LAMB, SIDNEY RIVERS .... 18 East 40th Street  
Phillips Exeter Academy, 1 year.  
Massachusetts Institute of Technology, 1 year.  
*German, Mathematics.*
- LANGTHORNE, JENNIE M. .... 59 Livingston Street, Brooklyn, N. Y.  
Miss Whitcomb's Seminary, 1887.  
Training School for Teachers, 1889.  
Teacher, P. S. No. 32, Brooklyn, N. Y.  
*Education, English.*
- LATANE, LUCY TEMPLE .... Baltimore, Md. .... 1230 Amsterdam Avenue  
Western High School, Baltimore, Md., 1885.  
Cornell University (Summer Session, 1897).  
Teacher, Mrs. Bullock's School, Baltimore, Md.  
*Education, Mathematics.*



- LAWS, GEORGIA KERFOOT.....Millwood, Va.....430 West 118th Street  
 Albemarle College, 1895.  
*Education, Mathematics.*
- LAWSON, CHARLES FRANCIS.....248 West 112th Street  
 Student, Columbia University, 2 years.  
*Latin, Philosophy.*
- LAWTON, ALBERT ROGERS.....Chappaqua, N. Y.  
 Swarthmore College, A.B., 1880; A.M., 1885.  
 University of Paris, 1 year.  
 Columbia University (Summer Session, 1901).  
 Principal, Chappaqua Mountain Institute, N. Y.  
*Education, Psychology.*
- LEACH, CHARLOTTE A.....340 Marcy Avenue, Brooklyn, N. Y.  
 Teacher, P. S. No. 23, Brooklyn, N. Y.  
*Education, Psychology.*
- LEDLEY, CHARLES W.....Baltimore, Md.....419 West 118th Street  
 Maryland State Normal School, 1901.  
 Teacher, Manual Training, High School, Havre de Grace, Md.  
*Fine Arts, Manual Training.*
- LEHOW, ANNIE.....Yellow Springs, Ohio.....417 West 118th Street  
 Woman's College, Baltimore, Md., 1 year.  
 Antioch College, A.B., 1900.  
*English, History, Physical Training.*
- LENAHAN, MICHAEL P.....248 East 49th Street  
 Normal College, Amawalk, N. Y., 2 years.  
 Teacher, St. Gabriel's School, New York City.  
*Education, Physics.*
- LEONARD, CORA J.....Ozone Park, Long Island, N. Y. City  
 State Normal College, Albany, N. Y., 1892.  
 Teacher, English and Mathematics, High School, Jamaica, N. Y.  
*Education, Mathematics.*
- LEVER, LILY CARLOTTA YENDELL.....52 St. Felix Street, Brooklyn, N. Y.  
 Packer Collegiate Institute, 1893.  
 Extension Student, Teachers College (Columbia University), 1 year.  
 Columbia University (Summer Session, 1901).  
 Teacher, P. S. No. 5, Brooklyn, N. Y.  
*Education, History.*
- LEWIS, MAURICE BURNETT.....423 Pleasant Avenue  
 College of the City of New York, B.S., 1895.  
 Student, Teachers College (Columbia University), 1 year.  
 Teacher, P. S. No. 75, New York City.  
*Education.*
- LINDSLEY, FRANK W.....29 Clinton Avenue, Jersey City, N. J.  
 State Normal College, Albany, N. Y., 1892.  
 Columbia University (Summer Session, 1901).  
*Education, Physics, Psychology.*
- LINSSSEN, LILY.....415 Bergen Street, Brooklyn, N. Y.  
 Visitation Convent, Brooklyn, N. Y.  
 Teacher, P. S. No. 78, Brooklyn, N. Y.  
*French, Geography.*
- LOBDELL, JOHN NATHAN.....Hartford, Conn.....5 West 125th Street  
 Potsdam Normal School, 3 years.  
 Teacher, Watkinson Farm School, Hartford, Conn.  
*Fine Arts, Manual Training, Psychology.*
- LOCKE, FLORENCE ELLIOT.....82 Sterling Place, Brooklyn, N. Y.  
 Training School for Teachers, Brooklyn, N. Y., 1892.  
 Teacher, P. S. No. 83, Brooklyn, N. Y.  
*Education, History.*
- LOCKHART, LIZZIE MARION.....134 Valentine Street, Mt. Vernon, N. Y.  
 Vassar College, A.B., 1896.  
 Teacher, Lockwood Collegiate School, Mt. Vernon, N. Y.  
*Education, Manual Training.*

- LOEWY, GEORGE JULIUS.....1295 Union Avenue  
College of the City of New York, 5 years.  
Stevens Institute of Technology, M.E., 1897.  
Student, Columbia University, 1 year.  
Teacher, Shop-work, Public Schools, New York City.  
*Chemistry, Education.*
- LOGAN, M. FRANCES.....Rochester, N. Y...65 Tenth Street, Hoboken, N. J.  
High School, Rochester, N. Y., 1893.  
Teacher, Normal Training School, Rochester, N. Y.  
*Education, Geography.*
- LONG, THOMAS ALEXANDER.....Danville, Va.....243 West 35th Street  
Lincoln University, Pa., A.B., 1889; A.M., 1892.  
Columbia University (Summer Session, 1901).  
Principal, Industrial High School, Danville, Va.  
*German, Psychology.*
- LOOPE, JOHN A.....Hollis, N. Y. City  
State Normal School, Cortland, N. Y., 3 years.  
Columbia University (Summer Session, 1901).  
Principal Public Schools Nos. 35, 33, 34, 36, 26, Borough of Queens, New York City.  
*French, Mathematics, Physics.*
- LOOS, MARY B.....Philadelphia, Pa.....310 West 113th Street  
Student, Teachers College (Columbia University), 1 year.  
Boston Slold Training School, 1901.  
Teacher, Drawing, Public School, Lakewood, N. J.  
*Manual Training, Psychology.*
- LOUDON, ARCHIBALD MACARTHUR.....544 West 126th Street  
*Chemistry, Physics.*
- LOWE, MAY A.....Dover, N. J.  
State Normal College, Trenton, N. J., 1897.  
Teacher, Public Schools, Dover, N. J.  
*Physical Training.*
- LOWE, NATHAN JOSEPH.....Tottenville, N. Y. City  
State Normal College, Albany, N. Y., 1893.  
Student, Teachers College (Columbia University), 1 year.  
Principal, High School, Tottenville, N. Y. City.  
*Education, History.*
- LOWTHER, HUGH SEARS.....Poughquag, N. Y.....1230 Amsterdam Avenue  
Syracuse University, A.B., 1899.  
University of Pennsylvania, 1 year.  
*German.*
- LUCEY, MICHAEL HENRY.....New Paltz, N. Y.....221 West 122d Street  
Normal School, New Paltz, N. Y., 1894, 1899.  
Teacher, P. S. No. 21, New York City.  
*English, German, History.*
- LUDWIG, AUGUSTUS.....995 Manhattan Avenue, Brooklyn, N. Y.  
State Normal School, Jamaica, N. Y., 1900.  
Teacher, P. S. No. 71, Queens Borough, New York City.  
*German, Philosophy, Physical Training.*
- LYMAN, BERTHA ELLEN.....Willimantic, Conn.....127 West 87th Street  
Normal School, Willimantic, Conn., 1902.  
*Manual Training.*
- LYNCH, MARY A. M.....1024 Forest Avenue  
Normal College, New York City, 1885.  
Teacher, P. S. No. 156, New York City.  
*Education.*
- LYON, WILLIAM WARREN, JR.....157 West 92d Street  
De Witt Clinton High School, New York City, 1902.  
*German, Physics.*
- LYONS, BERTHA G.....100 East 83d Street  
Normal College, New York City, 1889.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 130, New York City.  
*Education, English, Psychology.*

- McADOW, LILLIAN (Mrs.).....823 West End Avenue  
*Philosophy.*
- McARDLE, MARY HELENA.....New Britain, Conn.....1230 Amsterdam Avenue  
State Normal School, New Britain, Conn., 1888.  
Principal Public School, Attleboro, Mass.  
*Education.*
- McCARTHY, GRACE.....Carthage, Mo.....1230 Amsterdam Avenue  
University of Missouri, 1899.  
Teacher, Public School, Carthage, Mo.  
*Education.*
- McCARVILL, JOSEPH.....Syracuse, N. Y.....131st Street and Broadway  
St. Joseph's Normal School, 1 year.  
Teacher, Christian Brothers' Academy, Syracuse, N. Y.  
*Education, Physics.*
- McCLAVE, MARY.....252 West 84th Street  
Normal College, New York City, 1881.  
Teacher, P. S. No. 9, New York City.  
*German.*
- McCORMICK, SUSAN CATHERINE.....366 Alexander Avenue  
St. Mary's Academy, Troy, N. Y., 1895.  
Teacher, P. S. No. 63, New York City.  
*Education.*
- McDOWELL, PAULINE.....447 Summer Avenue, Newark, N. J.  
Wellesley College, A.B., 1896.  
Teacher, High School, Weston, Mass.  
*Chemistry, Education.*
- McEVoy, ELIZABETH.....29 West 131st Street  
Normal College, New York City, A.B., 1892.  
Teacher, P. S. No. 5, New York City.  
*Mathematics.*
- McGEE, JOHN D'ARCY.....Pond Place, Bedford Park, N. Y. City  
St. Laurent College, 3 years.  
Laval University, B.L., 1890.  
Teacher, P. S. No. 101, New York City.  
*Education.*
- McHENRY, LOUISE.....Nashville, Tenn.....1878 Seventh Avenue  
College for Young Ladies, Nashville, Tenn.  
*English, Psychology.*
- McKERNAN, CHRISTINE ELIZA.....Jersey City, N. J.....419 West 118th Street  
Normal School, Jersey City, N. J., 1879.  
Columbia University (Summer Sessions, 1900 and 1901).  
Vice-Principal, P. S. No. 20, Jersey City, N. J.  
*Education, Philosophy.*
- McKINSTRY, GRACE.....Fredonia, N. Y.....1230 Amsterdam Avenue  
State Normal School, Fredonia, N. Y., 1890, 1892.  
Teachers College (Columbia University), 1900.  
Teacher, State Normal School, Fredonia, N. Y.  
*English, Spanish.*
- McLAREN, JOHN DICE.....231 West 116th Street  
Kansas State University, B.S., and B.D., 1886; M.S., 1889.  
Johns Hopkins University, 3 years.  
Columbia University, M.D., 1896.  
*Chemistry, Physics.*
- McLAUGHLIN, CYRIL BERCHMAN.....254 West 136th Street  
St. Francis Xavier College, A.B., 1899.  
Student, Columbia University, 3 years.  
*Chemistry, Mathematics.*
- McLINTOCK, HERBERT MONTGOMERY.....149 West 79th Street  
Student, Columbia University, 3 years.  
*Philosophy, Psychology.*

- McMILLEN, HARLOW.....Tottenville, S. I., N. Y. City  
 Union College, A.B., 1887; A.M., 1900.  
 State Normal College, Albany, N. Y., Pd.B., 1897.  
 Columbia University (Summer Session, 1901).  
 Teacher, High School, Richmond Borough, New York City.  
*Chemistry, Education.*
- McMULKIN, MARTHA J.....52 Park Place, Brooklyn, N. Y.  
 Normal College, Toronto, Can., 1880.  
 Extension Student, Teachers College (Columbia University), 2 years.  
 Teacher, P. S. No. 42, Brooklyn, N. Y.  
*Education.*
- McNIFF, KATHARINE.....Harrisburg, Pa.....1230 Amsterdam Avenue  
 Bloomsburg State Normal College, M.E., 1887; M.S., 1891.  
 Harvard University (Summer Session, 1900).  
 Columbia University (Summer Session, 1901).  
 Teacher, Latin, High School, Harrisburg, Pa.  
*Fine Arts, Latin.*
- MACALARNEY, EMMA LENORE.....67 St. Nicholas Avenue  
 Wellesley College, A.B., 1892.  
 Student, Columbia University, 1 year.  
 Teacher, Randolph Pond School, New York City.  
*English.*
- MACGREGOR, KATE MILLER.....Hillburn, N. Y.....529 West 123d Street  
 Academy, Newburgh, N. Y., 1886.  
 Student, Teachers College (Columbia University), 2 years.  
 Teacher, Public School, Suffern, N. Y.  
*English, Geography.*
- MACHAN, ISABELLA THOMPSON.....78 Halsey Street, Brooklyn, N. Y.  
 Wellesley College, A.B., 1887.  
*Education.*
- MACINNES, ALEXANDRA.....314 West 113th Street  
 Hamilton Ladies' College, M.L.A., 1890.  
 Hamilton Collegiate Institute, 1897.  
 Normal College, Ontario, Can., 1898.  
*Education, English, History.*
- MACK, MARY SMITH.....Denver, Col.....153 East 62d Street  
 Connecticut Normal School, 1882.  
 Teachers College (Columbia University), 1902.  
*French, Mathematics.*
- MACKBY, JULIUS.....54 Market Street  
 College of the City of New York, B.S., 1900.  
 Teacher, P. S. No. 1, New York City.  
*Manual Training, Philosophy.*
- MAGEE, MARY GERALDINE.....713 Metropolitan Avenue, Brooklyn, N. Y.  
 Girls' High School, Brooklyn, N. Y., 1886.  
 Columbia University (Summer Session, 1901).  
 Teacher, P. S. No. 76, Brooklyn, N. Y.  
*Education, English.*
- MAGEWORTH, JULIUS OTIS.....2825 Decatur Avenue, Bedford Park, N. Y. City  
 College of the City of New York, A.B., 1898.  
 New York University (Law), 1 year.  
 Student, Columbia University, 2 years.  
 Columbia University (Summer Session, 1900).  
 Teacher, P. S. No. 98, New York City.  
*English.*
- MAIN, ESTELLA.....314 West 19th Street  
 Normal College, New York City, 1890.  
 State Normal College, Albany, N. Y., 1892.  
 Columbia University (Summer Session, 1900).  
 Teacher, P. S. No. 31, Queens Borough, New York City.  
*Education, Fine Arts, Psychology.*
- MALLALIEU, WILLARD C.....90 St. Marks Avenue, Brooklyn, N. Y.  
 Student, Columbia University, 1 year.  
*Chemistry.*

- MARSH, HORACE WILMER.....233A Willoughby Avenue, Brooklyn, N. Y.  
Lafayette College, A.B., 1889; A.M., 1893.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, Mathematics, Pratt Institute, Brooklyn, N. Y.  
*Philosophy, Psychology.*
- MASON, MARY ALLEN.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
Training School for Teachers, Brooklyn, N. Y., 1888.  
Adelphi College, 3 years.  
Teacher, P. S. No. 85, Brooklyn, N. Y.  
*Education, English.*
- MATTERN, ROY BRISCOE.....Dobbs Ferry, N. Y.  
Pennsylvania State College, B.S., 1893.  
Cornell University (Summer Session, 1901).  
Teacher, Mathematics, Mackenzie School, Dobbs Ferry, N. Y.  
*Education.*
- MATTHIS, CAROLINE LOUISE.....303 West 102d Street  
University of Kazan, Russia, 1883.  
Columbia University (Summer Session, 1901).  
Private Teacher, Languages and Music.  
*Education, German, Psychology.*
- MEADOWCROFT, ABBIE JANE.....Haverhill, Mass.....417 West 118th Street  
High School, Haverhill, Mass., 1873.  
Columbia University (Summer Sessions, 1900 and 1901).  
Principal, Public School, Haverhill, Mass.  
*Education, Geography.*
- MERRELL, CHARLOTTE CHIPMAN.....153 East 62d Street  
Rochester Free Academy, 1881.  
Extension Student, Teachers College (Columbia University), 2 years.  
Teacher, P. S., No. 2, New York City.  
*German.*
- MERRILL, EDNA MOORE.....661 East 142d Street  
Normal College, New York City, 1883.  
Teacher, P. S. No. 156, New York City.  
*Education.*
- MERRILL, JENNIE M.....Dayton, N. Y.....414 West 118th Street  
Normal School, Fredonia, N. Y., 1886, 1899.  
*Education, Latin.*
- MERRILL, VALERIA INEZ.....419 West 118th Street  
Vassar College, 1 year.  
Columbia University (Summer Sessions, 1900 and 1901).  
*German, Physics.*
- MERSERAU, ELIZABETH CHAPMAN.....165th Street and Walton Avenue  
Normal College, New York City, 1878.  
Teacher, Public Schools, New York City.  
*Education.*
- MICHAEL, GEORGE WASHINGTON.....182 East End Avenue  
College of the City of New York, B.S., 1897.  
Columbia University (Summer Session, 1901).  
Teacher, P. S., No. 30, New York City.  
*English, German.*
- MIDDLETON, FLORENCE.....366 St. Nicholas Avenue  
Normal College, New York City, 1885.  
Columbia University (Summer Session, 1900).  
Teacher, P. S. No. 165, New York City.  
*German.*
- MILLER, EDWARD F.....Newport News, Va.  
Teacher, Physical Culture, Y. M. C. A., Newport News, Va.  
*Physical Training.*
- MILLER, SARA.....183 West 87th Street  
Normal College, New York City, 2 years.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 28, New York City.  
*Education.*

- MINER, BENJAMIN C. .... Newark, N. J.  
Middlebury College, B.S., 1893.  
Principal, Hawthorne Avenue Public School, Newark, N. J.  
*Education.*
- MISCHLICH, ADOLPH. .... 108 East 71st Street  
College of the City of New York, B.S., 1879.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 18, New York City.  
*Education, English.*
- MONTGOMERY, SARAH LOUISE. .... 1230 Amsterdam Avenue  
De Pauw University, 2 years.  
Cornell University (Summer Session, 1900).  
Principal, Teachers' Training School, Springfield, Ill.  
*Manual Training, Psychology.*
- MOORE, ANNIE LAURA. .... 1230 Amsterdam Avenue  
Training School, Springfield, Mass., 1893.  
Teacher, Brightwood School, Springfield, Mass.  
*Education, Psychology.*
- MOORE, LEVI VINTON. .... 113 West 134th Street  
Tillotson College, 1894.  
Teacher, Manual Training, High and Training School, Baltimore, Md.  
*Manual Training, Physics.*
- MOORE, S. MAUDE. .... 101 Halsey Street, Brooklyn, N. Y.  
Wellesley College, A.B., 1898.  
Teacher, Erasmus Hall High School, Brooklyn, N. Y.  
*Education.*
- MORDORF, OLIVER CLEON. .... 503 Lafayette Avenue, Brooklyn, N. Y.  
Dickinson College, A.B., 1889; A.M., 1892.  
Teacher, Mathematics, Training School for Teachers, Brooklyn, N. Y.  
*Education.*
- MORROW, MARIA McCULLOUGH. .... 181 Avenue C  
Normal College, New York City, 1890.  
Teacher, P. S. No. 22, New York City.  
*Education.*
- MORSE, JOHN HENDERSON. .... 1230 Amsterdam Avenue  
Southwestern University, Texas, B.S., 1888.  
University of Nashville, A.B., 1893.  
Massachusetts Institute of Technology, 1 year.  
*Education, Manual Training.*
- MOSES, JOSEPH. .... 318 East 13th Street  
University of Cincinnati, A.B., 1894.  
Student, General Theological Seminary.  
*English, German.*
- MOSHER, MELVIN A. .... 519 West 123d Street  
Salt Lake City, Utah.  
State University of Utah, 2 years.  
Michigan College of Mines, 1 year.  
Student, Columbia University, 1 year.  
*Chemistry, Mathematics.*
- MOSS, JESSIE. .... 311 East 120th Street  
Normal College, New York City, 1885.  
Teacher, P. S. No. 49, New York City.  
*Education.*
- MOST, IDA D. .... 1250 Fortieth St., Brooklyn, N. Y.  
State Normal School, Edinboro, Pa., B.E., 1894; M.E., 1896.  
Teacher, High School, Wellington, Ohio.  
*History.*
- MOWELL, JOSEPH WESTBROOK. .... Highland, N. Y.  
Normal School, New Paltz, N. Y., 1892.  
Teacher, P. S. No. 98, New York City.  
*Education.*

- MULVANEY, SARA L. .... 353 Degraw Street, Brooklyn, N. Y.  
New York University, 1 year.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 123, Brooklyn, N. Y.  
*Education, History, Physical Training.*
- MUNSON, DANIEL GILBERT. .... 388 Decatur Street, Brooklyn, N. Y.  
Colby College, A.B., 1892; A.M., 1895.  
Teacher, English, Boys' High School, Brooklyn, N. Y.  
*English.*
- NEBINGER, MARY GEARY. .... Newark, N. J. .... 1230 Amsterdam Avenue  
High School, Philadelphia, Penn., 1881.  
Normal School, Newark, N. J., 1885.  
Teacher, Fifteenth Avenue Public School, Newark, N. J.  
*Education, English.*
- NEEDHAM, FRANCIS JEROME. .... 50 Second Street  
St. Joseph's Normal College, 1 year.  
Teacher, La Salle Academy, New York City.  
*Education, English.*
- NESBIT, MARGARET OTIS. .... 88 Buena Vista Avenue, Yonkers, N. Y.  
Student, Teachers College (Columbia University), 1 year.  
*English, Physical Training, Psychology.*
- NESSLAGE, IDA HERMINA. .... 25 West 94th Street  
Normal College, New York City, 1887.  
Teacher, Public Schools, New York City.  
*Biology, Education, German.*
- NEWCOMER, SADIE ELIZABETH. .... Carlisle, Pa. .... 113 West 103d Street  
Kansas State University, 2 years.  
Columbia University (Summer Session, 1901).  
Teacher, Carlisle Indian School, Carlisle, Pa.  
*Education, German, Physics.*
- NEWMAN, ETHEL LEONE. .... Riverside, Conn.  
Columbia University, A.B., 1902.  
*Education.*
- NOLAN, JOHN T. .... 1103 Jennings Street  
De La Salle Institute, New York City, 4 years.  
Cooper Union, New York City, 4 years.  
Teacher, Public Schools, New York City.  
*Education, French.*
- NOONE, JOHN JOSEPH. .... Albany, N. Y. .... 131st Street and Boulevard  
St. Joseph's Normal School, 4 years.  
Teacher, Christian Brothers' Academy, Albany, N. Y.  
*Education, Physics.*
- OBERMEIER, MINNIE. .... 282 West 137th Street  
Normal College, New York City, A.B., 1901.  
Teacher, Public Schools, New York City.  
*Latin.*
- O'CONNOR, EDWARD FRANCIS. .... 473 East 150th Street  
College of the City of New York, B.S., 1896.  
Teacher, P. S. No. 40, New York City.  
*Chemistry.*
- O'CONNOR, KATHARINE. .... South Amboy, N. J.  
Teacher, Public Schools, South Amboy, N. J.  
*Education, History.*
- O'DONNELL, MARY JOSEPHINE GERTRUDE. .... 211 East 36th Street  
St. Gabriel's Academy, New York City, 1890.  
Teacher, St. Gabriel's Academy.  
*Education, English.*
- O'GRADY, KATHERINE LOUISE. .... North Tonawanda, N. Y. .... 1888 Lexington Avenue  
State Normal School, Geneseo, N. Y., 1894.  
Emerson College of Oratory, 1902.  
Teacher, Elocution, East High School, Cleveland, Ohio.  
*Physical Training.*

- OLIVER, JOSEPH WARREN.....Nanticoke, Pa.....1230 Amsterdam Avenue  
Normal School, East Stroudsburg, Pa., 1896.  
Teacher, Public School, Nanticoke, Pa.  
*Education, Manual Training, Psychology.*
- O'NEILL, ANNIE JANE.....144 Oakland Street, Brooklyn, N. Y.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 2 years.  
Teacher, P. S. No. 31, Brooklyn, N. Y.  
*Education, German, Psychology.*
- O'NEILL, CHARLES E.....312 East 116th Street  
College of the City of New York, A.B., 1894.  
Extension Student, Teachers College (Columbia University), 1 year.  
Teacher, Public Schools, New York City.  
*Education, Psychology.*
- OPPER, LAWRENCE.....Stamford, Conn...Bay 31st Street, Brooklyn, N. Y.  
Polytechnic Institute, Brooklyn, N. Y., 1901.  
Student, Columbia University, 1 year.  
*Mathematics.*
- ORTHMANN, ELIZABETH.....1230 Amsterdam Avenue  
Lette-Haus, Berlin, 1891.  
Columbia University (Summer Session, 1900).  
Teacher, German, Public Schools, New York City.  
*French, Philosophy.*
- OWENS, JENNIE FREEBORN.....10 Laidlaw Avenue, Jersey City, N. J.  
Training School, Jersey City, N. J., 1888.  
Columbia University (Summer Session, 1901).  
Teacher, Training School, Jersey City, N. J.  
*English, Fine Arts.*
- PALMER, EARLE FENTON.....201 West 122d Street  
College of the City of New York, B.S., 1888.  
Tutor, College of the City of New York.  
*Education, English.*
- PARDEE, MARY FIELD.....South Norwalk, Conn.....1230 Amsterdam Avenue  
Houghton Seminary, Clinton, N. Y., 1891.  
Morgan Park Academy, Chicago, Ill., 1 year.  
Teacher, German, Annie Wright Seminary, Tacoma, Wash.  
*Education, English, German.*
- PARSONS, MAUD WELLESLEY.....Rye, N. Y.....316 West 102d Street  
Miss Ballow's School, New York City, 4 years.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, Miss Low's School, Stamford, Conn.  
*Education, English, History.*
- PATTEE, ERNEST NOBLE.....Syracuse, N. Y.....789 St. Nicholas Avenue  
University of Rochester, B.S., 1886; M.S., 1888.  
Professor, Chemistry, Syracuse University.  
*Physics.*
- PAUL, FRANCIS HUGH JOSEPH...Long Island City, N. Y.....121 East 51st Street  
College of the City of New York, A.B., 1897.  
New York University, Pd.M., 1902.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 18, New York City.  
*Education, English.*
- PELTON, EDWARD FRANKLIN.....240 West 104th Street  
Princeton University, B.S., 1898.  
Student, Columbia University, 2 years.  
*Chemistry.*
- PEMBER, GERTRUDE.....Long Hill, N. J.....419 West 118th Street  
Key Port High School, 1882.  
New Jersey Normal School, 1898.  
Teacher, Public Schools, Midland Park, N. J.  
*Biology, Education.*
- PERSONS, VIRGINIA GARDNER.....Talbotton, Ga.....320 West 58th Street  
Le Vert College, A.B., 1892.  
State Normal School, Athens, Ga., one year.  
Teacher, English, Le Vert College, Talbotton, Ga.  
*English, Physical Training.*



- PHILLIPS, ELLA GARIS.....Stroudsburg, Pa.....520 West 123d Street  
State Normal School, Stroudsburg, Pa., 1902.  
Teacher, Public Schools, Stroudsburg, Pa.  
*Biology, Education, Fine Arts.*
- PHILP, MAY ISABEL.....Chateaugay, N. Y.....80 Manhattan Avenue  
Normal School, Potsdam, N. Y., 1894.  
Syracuse University, Ph.B., 1901.  
*English.*
- PHINNEY, MARY A.....21 West 120th Street  
Normal College, New York City, 1877.  
Teacher, P. S. No. 161, New York City.  
*Education, English, Fine Arts.*
- PIERCE, ADELAIDE.....Chelsea, Mass.....1230 Amsterdam Avenue  
Washington Academy, 1876.  
Principal, Cary Primary School, Chelsea, Mass.  
*Education, Manual Training, Psychology.*
- POCKRIDGE, ANNA.....1156 Second Avenue  
Normal College, New York City, 1879.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 168, New York City.  
*Education, Psychology.*
- POHL, HENRY J. O.....560 West 113th Street  
Gymnasium, Königsberg, Prussia, 6 years.  
*English.*
- POND, HARRIET.....Jersey City, N. J.....527 West 173d Street  
New Jersey Manual Training College, 1890.  
Teacher, Domestic Science, P. S. No. 9, New York City.  
*Biology, Chemistry.*
- POSEY, FRANCIS DUNNINGTON.....Doncaster, Md.....93 South Ninth Street,  
Western Maryland College, A.B., 1896. Brooklyn, N. Y.  
Teacher, Mathematics, St. Matthew's School, San Mateo, Cal.  
*Mathematics.*
- POUNDING, ELOISE.....East Hampton, N. Y.....1230 Amsterdam Avenue  
Normal School, Geneseo, N. Y., 1894.  
Teacher, P. S. No. 3, Staten Island, New York City.  
*Education, Fine Arts.*
- POZDENA, OTTO R.....360 East 72d Street  
Cornell Medical College, 1 year.  
*Chemistry, Physics.*
- PRENTIS, EDMUND ASTLEY, JR.....408 West 23d Street  
Hamilton Institute, 1902.  
*Chemistry, Physics.*
- QUENNARD, ANNA H.....Port Jefferson, L. I., N. Y.....419 West 118th Street  
Normal School, Oswego, N. Y., 1895.  
Teacher, P. S. No. 5, Queens Borough, New York City.  
*Geography.*
- RAGSDALE, EARL JAMES WILSON...Tientsin, Pechili, North China...27 Locust Street,  
Imperial Tientsin University, 2 years. Flushing, L. I.  
Santa Rosa High School, 1 year.  
High School, Flushing, L. I., 1 year.  
*German, Physics.*
- RAINES, JULIA MARSHALL.....Columbus, Ga.....320 West 58th Street  
Southern Female College, A.B., 1894.  
Columbia University (Summer Session, 1901).  
Teacher, Public Schools, Columbus, Ga.  
*Manual Training, Psychology.*
- RAINEY, ANNIE.....428 West 57th Street  
Normal College, New York City, 1887.  
Teacher, P. S. No. 84, New York City.  
*Education, Physical Training.*
- RAINEY, WILLIAM McCLEAN.....3136 Broadway  
College of the City of New York, B.S., 1891.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 173, New York City.  
*Education.*

- RAUX, MARIE LOUISE.....239 West 24th Street  
 Teacher, Packer Collegiate Institute, Brooklyn, N. Y.  
*Education.*
- RAYMOND, HARRIET BANKS.....Norwalk, Conn.....Y. W. C. A., Union Street,  
 Teacher, Public Schools, Norwalk, Conn. Brooklyn, N. Y.  
*Education, Geography.*
- RAYNER, IDA LOUISE.....5 West 135th Street  
 Normal College, New York City, 1879.  
 Teacher, P. S. No. 89, New York City.  
*Education.*
- REED, ALBERT G.....Austin, Texas.....414 West 118th Street  
 Vanderbilt University, A.B., 1895.  
 Yale University, A.M., 1897.  
 Student, Columbia University, 1 year.  
 Instructor, English, University of Texas.  
*English.*
- REED, JOANNA ASHTON.....141 West 4th Street  
 Normal College, New York City, A.B., 1893.  
 State Normal College, Albany, N. Y., Pd.B., 1895.  
 New York University, A.M., 1901.  
 Teacher, P. S. No. 1, New York City.  
*Latin.*
- REESE, GERALD LIVINGSTONE.....478 West 159th Street  
*Chemistry, German.*
- REGAN, MARY ANASTATIA.....40 West 129th Street  
 Normal College, New York City, 1883.  
 Student, Teachers College (Columbia University), 2 years.  
 Columbia University (Summer Session, 1901).  
 Teacher, P. S. No. 7, New York City.  
*Education, English.*
- REIS, ARTHUR.....609 West End Avenue  
 Student, Columbia University, 2 years.  
*German, Philosophy.*
- RIBLET, MARY VARIAN.....343 East 68th Street  
 Normal College, New York City, A.B., 1896.  
 Columbia University (Summer Sessions, 1900 and 1901).  
 Teacher, P. S. No. 19, New York City.  
*English, German.*
- RIBLET, RONALD F.....343 East 68th Street  
 Student, Columbia University, 1 year.  
*German, Mathematics.*
- RIDDLE, GEORGE WILLIAM.....Saranac Lake, N. Y.....1230 Amsterdam Avenue  
 Private instruction.  
*Chemistry, Physics.*
- RIEMANN, EDITH.....Walton, N. Y.....1230 Amsterdam Avenue  
 South Dakota Agricultural College, B.S., 1898.  
 Teacher, Science, High School, Auburn, N. Y.  
*Biology, Education.*
- RILEY, MARIETTA.....23 Fairview Place, Flatbush, N. Y.  
 Student, Teachers College (Columbia University), 3 years.  
 Columbia University (Summer Sessions, 1900 and 1901).  
 Teacher, P. S. No. 43, Brooklyn, N. Y.  
*Education, English.*
- RINALDO, HENRIETTA.....66 East 92d Street  
 Normal College, New York City, 1894.  
 Teacher, P. S., No. 77, New York City.  
*Psychology.*
- RING, ELIZA MARY.....St. Louis, Mo.....417 West 118th Street  
 High School, St. Louis, Mo., 1899.  
 Teacher, Public Schools, St. Louis, Mo.  
*Biology, English, Fine Arts, German.*
- ROBB, JULIA LOUISE.....1210 Fifth Avenue  
 Mt. Holyoke Seminary, 1885.  
*Education.*

- ROBBINS, GEORGE W. .... Edgewater, N. J.  
New Jersey State Normal School, 1894.  
Teacher, High School, West Hoboken, N. J.  
*Chemistry, Physics.*
- ROBBINS, ROBERT L. .... 263 Quincy Street, Brooklyn, N. Y.  
New Jersey State Normal School, 1893.  
Teacher, P. S. No. 108, Brooklyn, N. Y.  
*Education, Psychology.*
- ROBERTS, ARTHUR JOSEPH. .... 812 Eagle Avenue  
College of the City of New York, B.S., 1897.  
New York University, 1 year.  
Teacher, P. S. No. 46, New York City.  
*Education.*
- ROBERTS, JOHN STACEY. .... 21 Beekman Place, cor. East Fiftieth Street  
College of the City of New York, B.S., 1895.  
Columbia University (Summer Session, 1901).  
Teacher, Mathematics, De Witt Clinton High School, and Principal, Evening School, No. 8, New York City.  
*Education, English.*
- RODMAN, BAYARD BLACKWELL. .... 846 Boulevard, Astoria, N. Y.  
Woodside High School, 1901.  
Columbia University (Summer Session, 1901).  
Student, Columbia University, 1 year.  
*Chemistry.*
- RODMAN, HENRIETTA. .... 846 Boulevard, Astoria, N. Y.  
Student, Teachers College (Columbia University), 3 years.  
Teacher, P. S. No. 11, New York City.  
*Fine Arts, History, Latin, Philosophy.*
- ROLLINSON, LILLIAN FRANCES. .... Rahway, N. J.  
Merington School, 1895.  
Columbia University (Summer Session, 1900).  
Teacher, Public School, Woodbridge, N. J.  
*Biology, Education.*
- ROMER, ELISABETH. .... 38 King Street, University Settlement  
Normal School, Copenhagen.  
La Sorbonne, Paris, 2 years.  
*Manual Training.*
- ROSE, GLADYS MARY. .... 420 West 23d Street  
Training School for Teachers, New York City, 1901.  
Teacher, P. S. No. 150, New York City.  
*Education, English, Physical Training.*
- ROSE, MARGARET L. .... Cleveland, Ohio. .... 125 West 21st Street  
High School, Buffalo, N. Y., 1888.  
*Education, Manual Training.*
- ROSS, HERBERT WEED. .... Newark, N. J. .... Earl Hall, Columbia University  
Student, Columbia University, 5 years.  
*History, Physical Training.*
- ROSSBERG, WILLIAM NICHOLAS. .... Helena, Mont. .... 519 West 123d Street  
Houghton College of Mines, 1 year.  
Student, Columbia University, 1 year.  
*Chemistry, Mathematics.*
- ROSSÉ, CÉLINA CECILIA. .... 412 Halsey Street, Brooklyn, N. Y.  
Normal College, New York City, 1884.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. 45, New York City.  
*English, Geography.*
- ROTTGER, ELIZABETH CHRISTINE. .... 1138 Washington Avenue  
Normal College, New York City, 1880.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 154, New York City.  
*History, Psychology.*

- RUSSELL, VINNEDGE M. . . . . Grand Rapids, Mich. . . . . 522 West 123d Street  
 Richmond Normal School, 1 year.  
 Earlham College, 1 year.  
 Chicago Normal School, 1 year.  
 Teacher, Manual Training, Public Schools, Grand Rapids, Mich.  
*Education, Fine Arts, Manual Training.*
- SACHS, WALTER EDWARD. . . . . 46 West 70th Street  
 Dr. J. Sachs's Collegiate Institute, 9 years.  
 Harvard University, 2 years.  
*English.*
- SALBERG, EMMA JANE. . . . . 266 West 126th Street  
 Normal College, New York City, 1879.  
 Columbia University (Summer Session, 1901).  
 Teacher, P. S. No. 17, New York City.  
*Education.*
- SALLEY, NATHANIEL MOSS. . . . . Orangeburg, S. C. . . . . 1230 Amsterdam Avenue  
 Wofford College, A.B., 1897.  
 Teacher, English and History, Carlisle Fitting School, Bamberg, S. C.  
*Education.*
- SAMMIS, MABEL CAINE. . . . . 634 Columbus Avenue  
 Normal College, New York City, A.B., 1897.  
 Teacher, P. S. No. 135, New York City.  
*Mathematics, Physics.*
- SANDT, JOHN HERMAN. . . . . Vineland, N. J. . . . . 365 Manhattan Avenue  
 State Normal School, East Stroudsburg, Pa., M.E., 1900.  
 Columbia University (Summer Session, 1901).  
 Teacher, Manual Training and Drawing, Public School, Vineland, N. J.  
*Fine Arts, Manual Training, Physical Training.*
- SANIAL, MARIE LUCIEN. . . . . Northport, L. I., N. Y. . . . . 1230 Amsterdam Avenue  
 Normal College, New York City, 4 years.  
 College of Pharmacy, New York City, 2 years.  
 New York University, 1 year.  
 Teacher, Teachers' Training School, New York City.  
*Education, Geography.*
- SATTERTHWAITE, WILLIAM H., JR. . . . . Horsham, Pa.  
 George School, Pa., 1901.  
 Teacher, George School, Brooks County, Pa.  
*Chemistry, Physical Training, Physics.*
- SAUNDERS, JOHN S. . . . . 44 Second Street  
 Normal College, Amawalk, N. Y., 2 years.  
 Teacher, La Salle Academy, New York City.  
*Education, German.*
- SAXE, BERNHARD DAVID. . . . . 683 Myrtle Avenue, Brooklyn, N. Y.  
 College of the City of New York, B.S., 1899.  
 New York University, 2 years.  
 Columbia University (Summer Session, 1901).  
 Tutor, College of the City of New York.  
*Education, Philosophy, Psychology.*
- SCANLON, JOSEPH LAWRENCE. . . . . 264 Jay Street, Brooklyn, N. Y.  
 Normal College, Amawalk, N. Y., 1 year.  
 Teacher, St. James School, Brooklyn, N. Y.  
*Education, Physics.*
- SCHILLER, BIANCA. . . . . College Point, N. Y. City  
 State Normal School, Oswego, N. Y., 1895.  
 Columbia University (Summer Session, 1900).  
 Critic, State Normal School, Jamaica, N. Y. City.  
*Education, Psychology.*
- SCHODTS, LILY MARGARET. . . . . 133 East 73d Street  
 Normal College, New York City, 1891.  
 Columbia University (Summer Sessions, 1900 and 1901).  
 Private teacher, New York City.  
*English, Latin.*
- SCHRAMM, ARNOLD O. . . . . 478 Central Park West  
 Student, Columbia University, 3 years.  
 Columbia University (Summer Session, 1900).  
*Chemistry, Fine Arts, Philosophy, Physics.*

- SCHRODER, LAURA.....Claremont Heights, N. Y. City  
Normal College, New York City, 1885.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 175, New York City.  
*English, Philosophy.*
- SCHWABE, IDA.....73 East 85th Street  
Student, Teachers College (Columbia University), 2 years.  
Columbia University (Summer Session, 1900).  
*French, Manual Training.*
- SCHWARZKOPF, WILLIAM.....235 West 125th Street  
College of the City of New York, 3 years.  
*Chemistry, English, Physics.*
- SCOTT, CLARA LOUISE.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
Packer Collegiate Institute, 1889.  
Training School for Teachers, Brooklyn, N. Y., 1901.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 11, Brooklyn, N. Y.  
*History.*
- SCOTT, MARGARET.....67 Greenpoint Avenue, Long Island City, N. Y.  
Private instruction.  
Principal, P. S. No. 3, Long Island City, N. Y.  
*Education.*
- SEARING, HENRIETTA CASTERLINE.....Dover, N. J.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 2 years.  
Vice-Principal, Public School No. 3, Dover, N. J.  
*Manual Training, Mathematics.*
- SEGGER, OTTO FREDERICK.....285 Central Avenue, Jersey City, N. J.  
Student, Columbia University, 2 years.  
*German, Physics.*
- SENIZA, FRANCISCA CATHERINE.....136 Boulevard, Hoboken, N. J.  
High School, Hoboken, N. J., 1898.  
New Jersey State Normal School, 1900.  
Columbia University (Summer Session, 1901).  
Teacher, Physics and Chemistry, New Jersey State Normal School.  
*Education, Mathematics, Philosophy.*
- SERGEANT, NETTIE C.....Atlanta, Ga.....24 East 47th Street  
University of Nashville, A.B., 1880; A.M., 1894.  
Principal, High School, Atlanta, Ga.  
*English.*
- SEWARD, ELIZABETH KIMBER.....250 West 94th Street  
Teachers College (Columbia University), 1893.  
Student, Columbia University, 2 years.  
Teacher, Miss Jacobi's School, New York City.  
*French, Geography.*
- SEYMOUR, HARRIET M.....Chatham, N. Y.....1230 Amsterdam Avenue  
State Normal School, Oswego, N. Y., 1890.  
Teacher, Sciences, High School, Chatham, N. Y.  
*Biology, Education.*
- SHALLEW, JOSEPH ALOYSIUS.....108 West 59th Street  
Normal College, Amawalk, N. Y., 2 years.  
Teacher, De La Salle Institute, New York City.  
*Education, Physics.*
- SHANLEY, REBECCA E.....Washington, D. C.....1230 Amsterdam Avenue  
State Normal School, Lock Haven, Pa., B.E., 1884.  
Cook County Normal School, Chicago, Ill.  
Teacher, English, Business High School, Washington, D. C.  
*Education, English, Fine Arts.*
- SHEEHAN, JOSEPH M.....396 Clinton Street, Brooklyn, N. Y.  
St. John's College, A.B., 1892; A.M., 1901.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 1, Brooklyn, N. Y.  
*Education, English, Philosophy.*

- SHERIDAN, JAMES WALTER.....Bedford Park, New York City  
College of the City of New York, B.S., 1899.  
Tutor, College of the City of New York.  
*English.*
- SHUFRO, JACOB J.....11 Eldridge Street  
College of the City of New York, B.S., 1899.  
Student, Columbia University, 1 year.  
Teacher, Public Schools, New York City.  
*Education, Physical Training.*
- SIMONS, ARTHUR GARRETTSON.....Tompkinsville, N. Y.  
Student, Columbia University, 3 years.  
*French, Physics.*
- SIMONS, CHARLES F.....128 St. Paul's Avenue, Stapleton, N. Y. City  
Normal School, Fredonia, N. Y., 3 years.  
Extension Student, Teachers College (Columbia University), 1 year.  
*Education.*
- SLOAT, MARY JANE.....Bloomfield, N. J.....1230 Amsterdam Avenue  
State Normal College, Albany, N. Y., 1886.  
Teacher, Public School, Bloomfield, N. J.  
*Education.*
- SMALLEN, HUGH JEROME. Pelham Road and Middleton Road, Throggs Neck, N. Y. City  
College of the City of New York, B.S., 1896.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 173, New York City.  
*Education, Physical Training.*
- SMITH, ABRAHAM.....1481 Madison Avenue  
College of the City of New York, B.S., 1898.  
New York University, 1 year.  
*German.*
- SMITH, ELIZABETH.....Chicago, Ill.....1230 Amsterdam Avenue  
Harvard University (Summer Session, 1898).  
Cornell University (Summer Session, 1899).  
Teacher, Geography, Normal School, Chicago, Ill.  
*English, Geography.*
- SMITH, LIDIE BLAKE.....Concord, N. C.....1230 Amsterdam Avenue  
Converse College, B.L., 1897.  
Teacher, Public School, Concord, N. C.  
*Education, English.*
- SMITH, MARIA L.....221 West 133d Street  
Normal College, New York City.  
Columbia University (Summer Sessions, 1900 and 1901).  
Teacher, P. S. No. 184, New York City.  
*Education, English.*
- SMITH, MEREDITH.....Omaha, Neb.....1230 Amsterdam Avenue  
Student, Teachers College (Columbia University), 1 year.  
Director of Kindergarten, Omaha, Neb.  
*Manual Training, Psychology.*
- SNYDER, ARRIETTA.....Newburgh, N. Y.....1230 Amsterdam Avenue  
Wellesley College, 2 years.  
State Normal College, Albany, N. Y., Pd.B., 1896.  
Supervisor of Grades, State Normal School, New Paltz, N. Y.  
*Mathematics.*
- SNYDER, BENTON LOUIS.....149 West 117th Street  
State Normal School, New Paltz, N. Y., 1900.  
University of Chicago, 1 year.  
Teacher, P. S. No. 82, New York City.  
*Education, German.*
- SPEAR, ALICE.....544 West 113th Street  
Normal College, New York City, 1880.  
*Education.*
- SPENCE, ANNIE.....56 West 135th Street  
Normal College, New York City, 3 years.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 83, New York City.  
*Education, Psychology.*

- SPINGARN, SIEGMUND.....118 East 58th Street  
Student, Columbia University, 1 year.  
*Mathematics.*
- STACK, MARY CARTHAGE.....169 East 111th Street  
Ursuline Academy, New York City, 8 years.  
*French, Mathematics.*
- STANTON, BENJAMIN JEFFERSON.....Tompkinsville, N. Y. City  
State Normal College, Albany, N. Y., 1888.  
Extension Student, Teachers College (Columbia University), 4 years.  
Teacher, P. S. No. 11, Richmond Borough, New York City.  
*Education.*
- STEIN, SAMUEL A.....Allegheny, Pa.....1230 Amsterdam Avenue  
Teachers' Seminary, Woodville, Ohio, 1898.  
Teacher, Trinity Lutheran School, Allegheny, Pa.  
*Education, Fine Arts, Philosophy.*
- STEVENS, PLOWDON, JR.....2126 Washington Avenue  
College of the City of New York, B.S., 1888.  
Student, Columbia University, 4 years.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 171, New York City.  
*Education, Philosophy.*
- STODDARD, KATE MAY.....Sterling, Ill.....430 West 118th Street  
Hillsdale College, Ph.B., 1887; Ph.M., 1890.  
University of Chicago (Summer Session, 1898).  
Teacher, High School, Sterling, Ill.  
*Mathematics, Physics.*
- STONE, ISABELLE.....Chicago, Ill.....417 West 118th Street  
Wellesley College, A.B., 1890.  
University of Chicago, M.S., 1896; Ph.D., 1897.  
Columbia University (Summer Session, 1901).  
Instructor, Physics, Vassar College.  
*Physics.*
- STONE, MABEL.....147 West 111th Street  
Normal College, New York City, A.B., 1893.  
New York University (Summer Session, 1898).  
Teacher, Cookery, Public Schools, New York City.  
*Chemistry, Physical Training.*
- STOW, SHERMAN HOLLISTER.....Santa Barbara, Cal.....614 West 113th Street  
Student, Columbia University, 2 years.  
*Chemistry.*
- STRASSER, ARTHUR LEWIS.....128 East 62d Street  
Student, Columbia University, 3 years.  
*Philosophy, Spanish.*
- STRATFORD, ALINE CROQUET.....397 Flatbush Avenue, Brooklyn, N. Y.  
Columbia University, A.B., 1897; A.M., 1899.  
Columbia University (Summer Session, 1901).  
Teacher, English, E. D. High School, Brooklyn, N. Y.  
*English, German, Physical Training.*
- STUTZ, ROSA CATHERINE.....Washington, D. C.....1230 Amsterdam Avenue  
Normal School, Washington, D. C., 1892.  
Teacher, English, High School, Washington, D. C.  
*Education, English, German.*
- SUYDAM, ALBERT GODFREY.....Ridgefield, N. J.....135 Broadway  
Keystone Academy, 1902.  
*German, Physics.*
- SWAN, EVELYN.....68 West 96th Street  
Teachers College (Columbia University), 1898.  
Columbia University (Summer Session, 1900).  
*Latin.*
- TALMAGE, SARAH MARLETTE.....294 Willis Avenue  
Normal College, New York City, A.B., 1898.  
Teacher, P. S. No. 156, New York City.  
*French, Mathematics.*

- TANZER, HELEN HENRIETTA.....294 West 92d Street  
Student, Columbia University, 2 years.  
Columbia University (Summer Session, 1901).  
Tutor, Normal College, New York City.  
*English, History, Psychology.*
- TATE, CLARA LLEWELLA.....35 Seventh Avenue  
Chicago University, 1 year.  
Highland Park College, Ph.G., 1897.  
Teacher, Latin, High School, Union Hill, N. J.  
*Latin.*
- TAYLOR, BESSIE RHETON.....Green's Farms, Conn.  
Mt. Holyoke College, 1881.  
Principal, Staples High School, Westport, Conn.  
*Chemistry.*
- TAYLOR, ELLA M. (Mrs.).....Yonkers, N. Y.  
New York University (Summer Session, 1899).  
Teacher, Public Schools, Yonkers, N. Y.  
*Education, Fine Arts, Psychology.*
- TAYLOR, EMMA CORNELIA.....Middletown, N. Y.....200 East 107th Street  
State Normal School, New Paltz, N. Y., 1900.  
Teacher, Public Schools, Middletown, N. Y.  
*Fine Arts, Manual Training.*
- TEALE, ANNA L.....Newburgh, N. Y.....430 West 118th Street  
School of Expression, New York City, 1895.  
American School of Oratory, Brooklyn, N. Y., 1896.  
Teacher, Physical Culture and Elocution, White Plains, N. Y.  
*Physical Training.*
- THACKER, BROWNE KITTREDGE.....109 West 54th Street  
High School, Waukegan, Ill., 1899.  
Columbia University (Summer Session, 1901).  
*Education, Manual Training, Philosophy.*
- THOMAS, FRANCES BAKER.....Asbury Park, N. J.....130 East 60th Street  
Berlitz School of Languages, 1 year.  
Cornell University (Summer Session, 1901).  
Teacher, P. S. No. 76, New York City.  
*Latin.*
- THOMAS, MARY EVELYN.....Skaneateles, N. Y.....1230 Amsterdam Avenue  
Normal College, New York City, 1878.  
Pratt Institute, 1900.  
Teacher, Helicon Hall, Englewood, N. J.  
*Education.*
- THORBURN, SUSAN GRAY.....215 West 51st Street  
Private Schools, New York City.  
Visiting governess.  
*Education, French, Manual Training.*
- THORNE, FRED.....Far Hills, N. J.  
State Normal School, New Paltz, N. Y., 1901.  
Principal, Public School, Far Hills, N. J.  
*Education, Manual Training.*
- THORNTON, ETHEL.....Talladega, Ala.....72 West 124th Street  
Isabell College, Talladega, Ala., A.B., 1898.  
State Normal College, Florence, Ala., A.B., 1900.  
Teacher, Public School, Talladega, Ala.  
*English.*
- TIBBITS, MARIETTA J.....439 West 123d Street  
Normal College, New York City, 1880.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 179, New York City.  
*Geography, Philosophy.*
- TIERNEY, ELIZABETH MARIE.....Kingsbridge, N. Y.  
Normal College, New York City, 1881.  
New York University, 1 year.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 10, New York City.  
*Education.*



- TIMMONS, WILLIAM JOHN.....846 East 164th Street  
St. John's College, A.B., 1901.  
Columbia University (Summer Session, 1900).  
Teacher, P. S. No. 85, New York City.  
*Education.*
- TINTNER, BENJAMIN ABNER.....18 West 18th Street  
Student, Columbia University, 1 year.  
*English, Latin, Psychology.*
- TIPTON, JACOB HENRY.....Murray, Utah.....430 West 118th Street  
Teacher, Manual Training, University of Utah.  
*Manual Training.*
- TITUS, GRACE COCHRANE.....1182 Madison Avenue  
Normal College, New York City, A.B., 1899.  
Extension Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 24, New York City.  
*Education, Physics.*
- TODD, EDWIN S.....Springfield, Ohio.....507 West 160th Street  
Wittenberg College, A.B., 1893; Ph.D., 1900.  
Teacher, High School, Springfield, Ohio.  
*French, German, Latin.*
- TOBPP, LAWRENCE ADAM.....Richmond, S. I., N. Y. City  
Griffith Institute, 1890.  
Columbia University (Summer Session, 1901).  
Student, Teachers College (Columbia University), 3 years.  
Teacher, P. S. No. 9, Richmond Borough, New York City.  
*Education, German.*
- TOMPKINS, ADA ECKERT.....178 Nepperham Avenue, Yonkers, N. Y.  
Kindergarten Training School, New York City, 1890.  
State Normal School, Oswego, N. Y., 1900.  
Columbia University (Summer Session, 1901).  
Teacher, Training School for Kindergarten Teachers, Santiago, Cuba.  
*French, Spanish.*
- TOMPKINS, GRENELLE BERTRAM.....104 Park Avenue, Paterson, N. J.  
High School, Paterson, N. J., 1901.  
*Chemistry, German, Latin.*
- TONER, ELEANOR LORETTO.....1284 Fulton Avenue  
Normal College, New York City, 1884; P.G., 3 years.  
New York University, 2 years.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 137, New York City.  
*Education.*
- TOPPER, WILLIAM.....Tarrytown, N. Y.....172 East 96th Street  
College of the City of New York, A.B., 1900.  
Secretary, The Hackley School, Tarrytown, N. Y.  
*Mathematics.*
- TOY, CHANNING RUST.....268 Springfield Avenue, Summit, N. J.  
Student, Columbia University, 1 year.  
Columbia University (Summer Session, 1901).  
*English, Fine Arts, Latin, Philosophy.*
- TREMPER, FLORENCE NIGHTINGALE..Hotel Winthrop, Seventh Avenue and 125th Street  
Normal College, New York City, 1884.  
Teacher, P. S. No. 119, New York City.  
*Education, English.*
- TUFTS, MARY ESTELLE.....Yellow Springs, Ohio.....417 West 118th Street  
Antioch College, A.B., 1896.  
*English, History, Physical Training.*
- TUNNY, FRANCIS M.....44 Second Street  
St. Joseph's Normal College, Amawalk, N. Y.  
Teacher, St. Brigid's School, New York City.  
*English, Spanish.*
- TUTHILL, CHARLES S.....85 Ray Street, Jamaica, N. Y.  
Normal School, New Paltz, N. Y., 1897.  
Teacher, P. S. No. 47, Borough of Queens, New York City.  
*Education.*

- ULEN, MARY.....Delphi, Ind.....1230 Amsterdam Avenue  
Indiana State Normal School, 5 years.  
Teacher, Public Schools, Delphi, Ind.  
*French, Manual Training.*
- VALADON, CELESTINE.....218 West 128th Street  
Normal College, New York City, 1838.  
Teacher, P. S. No. 165, New York City.  
*French, History.*
- VALENTINE, MINNIE BASSETT.....62 Java Street, Brooklyn, N. Y.  
Girls' High School, Brooklyn, N. Y., 1888.  
Teacher, P. S. No. 128, Brooklyn, N. Y.  
*Education, Physical Training.*
- VAN DEUSEN, MARY ELIZABETH....Ashley Falls, Mass.....32 West 40th Street  
Mt. Holyoke College, 1890.  
Teacher, Ballard Normal School, Macon, Ga.  
*Education.*
- VAN WAGONEN, MARY ELIZABETH (Mrs.)....Pittsburgh, Pa....417 West 118th Street  
Academy, Kingston, N. Y.  
Teacher, Drawing, Public Schools, Pittsburgh, Pa.  
*Education, Fine Arts, Manual Training.*
- VEIT, BENJAMIN.....69 West 131st Street  
College of the City of New York, B.S., 1886.  
Teacher, P. S. No. 83, New York City.  
*Education.*
- VENABLE, GEORGE NICKLIN.....53 North Third Street, Paterson, N. J.  
New Jersey State Normal School, 1896.  
Teacher, High School, West Hoboken, N. J.  
*Education, English.*
- VIERTTEL, SAMUEL.....7 West 118th Street  
College of the City of New York, B.S., 1898.  
Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 43, New York City.  
*Education, English.*
- VOM SAAL, FREDERICK MAXIMILIAN.....431 East 51st Street  
University of Pennsylvania, 1 year.  
Student, Columbia University, 1 year.  
*Mathematics.*
- VON SEYFRIED, EMMA MARIA.....79 Hillside Avenue, Newark, N. J.  
State Normal School, Trenton, N. J., 1882.  
Teacher, Cornwall Heights School, Cornwall-on-Hudson, N. Y.  
*Education, German.*
- WAHLE, MARIE.....Brooklyn, N. Y.....520 West 123d Street  
Royal Conservatory of Music, Stuttgart, Germany.  
Teacher, Music, Mt. Holly Academy, Mt. Holly, N. J.  
*English, French, German.*
- WALKER, EMMA.....1439 Pacific Street, Brooklyn, N. Y.  
Packer Collegiate Institute, Brooklyn, N. Y.  
Teacher, P. S. No. 44, Brooklyn, N. Y.  
*Philosophy, Physics.*
- WALKER, JENNIE.....1439 Pacific Street, Brooklyn, N. Y.  
Packer Collegiate Institute, Brooklyn, N. Y.  
*German, Philosophy.*
- WALSH, DANIEL O'C.....107 St. James Place, Brooklyn, N. Y.  
Potomac Academy, Alexandria, Va., 5 years.  
Harvard University (Summer Session, 1899).  
University of Chicago (Summer Sessions, 1900 and 1901).  
Librarian, Boys' High School, Brooklyn, N. Y.  
*Education.*
- WALSH, SADIE F.....107 St. James Place, Brooklyn, N. Y.  
Pratt Institute, 1 year.  
Miller School, 1 year.  
*English, Physical Training.*

- WALTER, JOHN CHARLES. . . . . Baltimore, Md. . . . . 306 West 113th Street  
Student, Columbia University, 1 year.  
*Chemistry, Mathematics.*
- WARNER, MARY LUCY. . . . . 436 Jefferson Avenue, Brooklyn, N. Y.  
High School, Brooklyn, N. Y., 1890.  
Training School for Teachers, Brooklyn, N. Y., 1891.  
Teacher, P. S. No. 72, Brooklyn, N. Y.  
*German, Philosophy, Physical Training.*
- WATSON, MARY HOLLAND. . . . . 139 Mt. Prospect Avenue, Newark, N. J.  
Radcliffe College, A.B., 1890.  
New York University, A.M., 1902.  
Teacher, High School, Newark, N. J.  
*Education, English, Philosophy.*
- WAUGH, LOUISE. . . . . Johnstown, Pa. . . . . 1230 Amsterdam Avenue  
High School, Johnstown, Pa., 1891.  
Teacher, Public School, Johnstown, Pa.  
*Biology, Education.*
- WEATHERBY, MILTON. . . . . New Brunswick, N. J.  
Allegheny College, B. S., 1890.  
Teacher, High School, New Brunswick, N. J.  
*Education, Physics, Psychology.*
- WEBER, MARY ELIZABETH. . . . . 240 West 122d Street  
Merington School, New York City, 1901.  
Teacher, Kindergarten Training School, Cincinnati, Ohio.  
*Education, Manual Training.*
- WEHLE, HANNA. . . . . 202 West 82d Street  
Normal College, New York City, 1883.  
Student, Teachers College (Columbia University), 1 year.  
Columbia University (Summer Session, 1901).  
Teacher, German, Wadleigh High School, New York City.  
*German.*
- WEIL, LUCIA. . . . . Bedford Park, New York City  
Normal College, New York City, 1898.  
Extension Student, Teachers College (Columbia University), 1 year.  
Teacher, P. S. No. 63, New York City.  
*Education.*
- WELCH, CHARLES C., JR. . . . . Denver, Colo. . . . . 1161 Amsterdam Avenue  
*Chemistry.*
- WEMYSS, HENRIETTA CHANFRAU. . . . . 57 West 84th Street  
Normal College, New York City, 1891.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 96, New York City.  
*Geography, Psychology.*
- WENDELL, MAY GODFREY. . . . . Bridgeport, Conn. . . . . 174 West 107th Street  
Columbia University, A.B., 1901.  
Teacher, English and German, High School, Bridgeport, Conn.  
*Education, German, Physical Training.*
- WENDT, CORDELIA. . . . . Larchmont, N. Y.  
Columbia University, A.B., 1901.  
Teacher, English, Girls' High School, Brooklyn, N. Y.  
*Education, English.*
- WHARTON, HEBER E. . . . . Baltimore, Md. . . . . 1230 Amsterdam Avenue  
High School, Baltimore, Md., 1895.  
Vice-Principal, P. S. No. 113, Baltimore, Md.  
*Education.*
- WHEELER, EDWIN BENNETT. . . . . St. Louis, Mo. . . . . 430 West 118th Street  
University of Missouri, B.S., 1899.  
Instructor, Physics, Union College.  
*Physics.*
- WHITEHALL, FRANK MAKEPEACE. . . . . 104 Hewes Street, Brooklyn, N. Y.  
London University, 1886.  
Adelphi College, Brooklyn, N. Y., A.B., 1901.  
Teacher, P. S. No. 9, Brooklyn, N. Y.  
*English, German.*

- WHITIN, ERNEST STAGG.....501 West 113th Street  
Student, Columbia University, 2 years.  
*Fine Arts, History, Mathematics.*
- WICKHAM, RICHARD WOODLEY.....Rensselaer, N. Y.....1230 Amsterdam Avenue  
State Normal College, Albany, N. Y., 1888.  
Principal, Training Class, Rensselaer, N. Y.  
*Education, Psychology.*
- WILBUR, RACHEL JANE.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
Dartmouth College (Summer Session, 1900).  
Teacher, P. S. No. 88, New York City.  
*Education, Geography, German.*
- WILDEY, DEDIE E.....521 West 51st Street  
Teacher, Corporate School of the Children's Aid Society, New York City.  
*Manual Training.*
- WILKINSON, ROBERT SHAW.....Orangeburg, S. C.....16 East 115th Street  
Oberlin College, A.B., 1891.  
Professor, Physics and Chemistry, State College, Orangeburg, S. C.  
*Chemistry, Physics.*
- WILLIAMS, EMILY ALICE.....70 West Fourth Street, Bayonne, N. J.  
Academic School, Bayonne, N. J., 1887.  
Principal, P. S. No. 2, Bayonne, N. J.  
*English, Fine Arts, Psychology.*
- WILLIAMS, EMMA WIRT.....Richmond, Va.....830 St. Nicholas Avenue  
Women's College, Richmond, Va., 1895.  
Richmond College, 1901, 1902.  
*History, Mathematics.*
- WILLIAMS, FRANCES MARIETTA.....Orange, N. J.  
Teachers College (Columbia University), 1890.  
Pratt Institute, Brooklyn, 1901.  
Director, Domestic Art, Iowa State College, Ames, Iowa.  
*Education, Manual Training.*
- WILLIAMS, REED.....417 West 118th Street  
Union Classical Institute, Schenectady, N. Y., 1902.  
*French, Mathematics.*
- WILSON, EMELYN.....Brooklyn, N. Y.....414 West 118th Street  
High School, Roselle, N. J.  
Martha's Vineyard Summer School, 7 summers.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 44, Brooklyn, N. Y.  
*Education.*
- WILSON, JOHN HENRY.....Plainfield, N. J.....1230 Amsterdam Avenue  
St. Stephen's College, A.B., 1896; A.M., 1899.  
New York University, A.M., 1899.  
Student, Columbia University, 3 years.  
*French, German, Physical Training.*
- WINGEBACH, JOSEPH FRANKLIN.....1218 Tinton Avenue  
College of the City of New York, B.S., 1889.  
New York University, 2 years.  
Teacher, P. S. No. 179, New York City.  
*Education.*
- WISE, WILLIAM WALLACE.....200 West 70th Street  
High School, Owosso, Mich., 1902.  
*Chemistry, Physics.*
- WISEMAN, JOSEPH SCOTT.....Oakhurst, N. J.....26 Lafayette Avenue  
State Normal School, Trenton, N. J., 1901.  
Teacher, Public School, Eastwood, N. J.  
*Education, Mathematics.*
- WITT, JOHN WILLIAM.....Warrenton, Mo.....284 Houston Street  
Manual Training School, St. Louis, Mo., 1900.  
Teacher, Manual Training, Columbia Public School, St. Louis, Mo.  
*Education, Manual Training.*

- WOHLFARTH, AMELIA.....119 West 129th Street  
Columbia University, A.B., 1899; A.M., 1900.  
Teacher, German, Ethical Culture School, New York City.  
*French, German, Physical Training.*
- WOLF, ELVA ESTHER.....Kokomo, Ind.....1230 Amsterdam Avenue  
Butler College, 1 year.  
Chicago University, 1 year.  
Teacher, Public School, Anderson, Ind.  
*French, Manual Training.*
- WOLF, J. IRVING.....33 Essex Street  
College of the City of New York, B.S., 1901.  
Student, Columbia University, 1 year.  
Teacher, Evening High Schools, New York City.  
*Chemistry.*
- WOLHEINTZ, JOSEPHINE BRANCH.....St. Louis, Mo.....117 West 118th Street  
Teacher, Mission Free School, Church of Messiah, St. Louis, Mo.  
*Fine Arts, Manual Training, Physical Training.*
- WOOD, ELEANOR FRANCES.....Buffalo, N. Y.....417 West 118th Street  
Central School, Buffalo, N. Y., 2 years.  
Asst. Principal, P. S. No. 60, Buffalo, N. Y.  
*Education, History.*
- WOOD, HOWELL R.....Flushing, N. Y.  
Colgate University, B.S., 1897.  
Columbia University (Summer Session, 1901).  
Teacher, High School, Flushing, N. Y.  
*Physics.*
- WOODARD, CLIFFORD AMBROSE.....3 May Street, New Rochelle, N. Y.  
State Normal College, Albany, N. Y., 4 years.  
Columbia University (Summer Sessions, 1900 and 1901).  
*Education, German, Mathematics.*
- WOODRUFF, LORANDE LOSS.....202 West 103d Street  
Columbia University, A.B., 1901; A.M., 1902.  
Columbia University (Summer Session, 1901).  
*Chemistry, Philosophy.*
- WOODS, JESSAMINE BORTLE.....Hartford, Conn.....161 West 106th Street  
New Britain Normal School, 1902.  
Teacher, Public Schools, Hartford, Conn.  
*Geography, Manual Training.*
- WOOLF, HARRY.....138th Street and Amsterdam Avenue  
College of the City of New York, B.S., 1895.  
Teacher, Hebrew Orphan Asylum, New York City.  
*Education.*
- WRIGHT, JANE.....Oneonta, N. Y.....South Orange, N. J.  
Columbia University (Summer Session, 1900).  
Normal School, Oneonta, N. Y., 1 year.  
Teacher, Public School, South Orange, N. J.  
*Education.*
- WRIGHT, JOHN PATRICK.....221 East 82d Street  
Normal School, Charlottetown, P. E. I., 1878.  
Columbia University (Summer Session, 1901).  
Teacher, P. S. No. 40, New York City.  
*Education.*
- YATES, JESSIE I. (Mrs.).....14 Taylor Street, West New Brighton, N. Y. City  
State Normal College, Albany, N. Y., 1 year.  
Teacher, P. S. No. 18, Richmond Borough, New York City.  
*Education.*
- YOUNG, HOWARD E.....Baltimore, Md.....1230 Amsterdam Avenue  
Private instruction.  
Vice-Principal, Public Schools, Baltimore, Md.  
*Education.*
- YOUNG, MARY G.....New York City.....1230 Amsterdam Avenue  
Extension Student, Teachers College (Columbia University), 2 years.  
*Education, English, Fine Arts.*

ZABRISKIE, EDWARD CORNELL.....	801 East 167th Street College of the City of New York, B.S., 1893. Teacher, Public Schools, New York City. <i>Education.</i>
ZOLLER, EMMA LOUISE.....	Pittsburgh, Pa.....1161 Amsterdam Avenue King's College, Pittsburgh, Pa., 2 years. Emerson College, Boston, Mass., 2 years. Harvard University (Summer Session, 1901). Teacher, Allegheny Preparatory School, Pittsburgh, Pa. <i>Physical Training.</i>
Total.....	876 67 .....643

## UNIVERSITY BIBLIOGRAPHY

FOR THE ACADEMIC YEAR ENDING JULY 1, 1902

### I. Official Publications of Columbia University

**Annual Catalogue:** describes the organization of the University, and gives a full statement of courses and facilities for research offered during the current year, lists of officers and students, accounts of fellowships, scholarships, and honors offered and conferred, estimates of expenses, requirements for admission and degrees, and the regulations governing the College and the various Schools of the University. Issued each December. Price, 25 cents.

**President's Annual Report to the Trustees:** issued each November.

**Directory of Officers and Students:** issued each year soon after the opening of the University; contains the names, office hours, and addresses of the officers of the University, and the names and addresses of the students registered up to the time of publication; revised and reprinted in the Catalogue.

**General Catalogue of the Alumni:** issued sextennially; contains the names and addresses of all graduates of the University. The current edition is that of 1900. Price, \$2.00. For sale at the University Press Bookstore.

**Announcements** of the various Schools of the University are issued in the spring of each year, and contain information concerning admission, expenses, courses of instruction to be given during the coming year, and requirements for degrees. They include:

**Announcement of Columbia College,** for the work leading to the degree of Bachelor of Arts.

**Announcement of the School of Law,** for the work leading to the degrees of Bachelor of Laws and Master of Laws.

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**Announcement of the Schools of Applied Science,** together with the special announcements of the courses in Mining Engineering and Metallurgy, Chemistry, Civil, Electrical, and Mechanical Engineering.

**Announcement of the Faculties of Political Science, Philosophy, and Pure Science,** for all non-professional advanced work leading to the degrees of Master of Arts, Doctor of Philosophy, and Master of Laws.

**Announcement of Courses in the Fine Arts,** including courses of

instruction given by the School of Architecture, in the Department of Music, and in the Departments of Fine Arts and Music in Teachers College.

**Announcement of the Summer Session.**

**Circular of Information as to Entrance Examinations.**

**Circular of General Information**, with views of the University Buildings.

**Announcements** of several departments of the University are issued each spring, and contain full information concerning the work of the coming year in those departments. These circulars are devoted to:

Classical Philology; Comparative Literature; English; Germanic Languages and Literatures; History; Oriental Languages; Philosophy, Psychology, and Anthropology; Romance Languages and Literatures.

Unless otherwise stated, all the publications above named are distributed without charge upon application to the Secretary of Columbia University.

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Publications of Barnard College include:

**Announcement of Barnard College:** contains full information concerning admission, expenses, courses of instruction, and requirements for the degree of Bachelor of Arts.

**Dean's Report:** issued yearly.

Distributed without charge upon application to the Dean of Barnard College.

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Publications of Teachers College include:

**Announcement of Teachers College:** issued annually; contains full information concerning the organization, equipment, and work of this institution, the Department of Education of Columbia University.

**Dean's Report:** issued each November.

**Circulars** describing the work of the following departments:

Domestic Science and Art; Domestic Science, describing a course in hospital economics; Fine Arts; Kindergarten; Manual Training; and Music.

These may be obtained without charge upon application to the Secretary of Teachers College.

**Circular of the Horace Mann School;** a school fully equipped with kindergarten, elementary, and secondary classes, maintained by Teachers College as a school of observation and practice.

May be obtained without charge upon application to the Superintendent of the Horace Mann School.

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The Columbia University Press was organized with the approval of the Trustees of Columbia College and incorporated June 8, 1893, for the purpose of promoting the publication of works embodying the



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During the year ending July 1, 1902, the Press, through The Macmillan Co., of New York and London, its publishing agents, issued "Economic Interpretation of History" by E. R. A. Seligman, and *current numbers* of the following\*:

Biological Series; Germanic Studies; Studies in Comparative Literature; Studies in History, Economics, and Public Law; Indo-Iranian Series; Oriental Studies; Contributions to Philosophy, Psychology, and Education; Studies in Romance Languages and Literatures; *Columbia University Quarterly*, and *Teachers College Record*.

### III. Serial Studies and Contributions from the University

**Biological Series.**—Founded in 1892; devoted to the general problems of biology; managing editors, H. F. Osborn and E. B. Wilson; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly, about one volume a year; price per volume (from 300 to 400 pages), \$2.00 to \$3.50.

Vol. VI. *The Protozoa*. By GARY N. CALKINS, Ph.D., Columbia University. (8vo, pp. xvi + 347, figs. 153, \$3.00 *net*.)

Vol. VII. *Regeneration*. By THOMAS HUNT MORGAN, Ph.D., Bryn Mawr College. (8vo, pp. xii + 316, figs. 66, \$3.00 *net*.)

**Botanical Club, Memoirs of the Torrey.**—Founded in 1889; devoted to longer articles than those contained in the Bulletin; editor, L. M. Underwood; published by the Club from Columbia University; issued irregularly, about one volume a year; \$3.00 per volume; prices of parts on application.

\* For previous issues from the Press see the *University Catalogue* for 1899-1900, pages 398-399; for 1900-1901, pages 455-456; for 1901-1902, pages 439-441, and the full catalogue issued by The Macmillan Co.

Vol. VIII, No. 1, Part 2. The comparative embryology of the Rubiaceæ. By FRANCIS ERNEST LLOYD.—Vol. VIII, No. 2. The Lejenareæ of the United States and Canada. By ALEXANDER W. EVANS.

**Botany, Contributions from the Department of.**—Founded in 1886; devoted to short papers; managing editor, L. M. Underwood; published by the editor, from Columbia University; issued irregularly, but usually one volume a year; price, per volume (about 330 pages and about 30 plates), \$5.00.

No. 184. Some points in the anatomy of *Chrysoma pacuiflosiculosa*. By FRANCIS E. LLOYD (1901).—No. 185. On a collection of plants made in Georgia in the summer of 1900. By ROLAND M. HARPER (1901).—No. 186. Still further notes on the Agrimonies. By EUGENE P. BICKNELL (1901).—No. 187. Studies in *Sisyrinchium*, XX: The species of Texas and the Southwest. By EUGENE P. BICKNELL (1901).—No. 188. *Dasyscypha resinarum* causing canker growth on *Abies balsamea* in Minnesota; *Tilletia horrida* Tak., on rice plant in South Carolina. By ALEXANDER P. ANDERSON (1902).—No. 189. American ferns, III. Our genera of Aspidiæ. By LUCIEN MARCUS UNDERWOOD (1902).—No. 190. Studies on *Urnula* and *Geopyxis*. By ELSIE M. KUPFER (1902).—No. 191. Some observations on transpiration. By CARLTON C. CURTIS (1902).—No. 192. *Taxodium distichum* and related species with notes on some geological factors influencing their distribution. By ROLAND M. HARPER (1902).

**Botany, Memoirs of the Department of.**—Founded in 1895; devoted to longer monographs; managing editor, L. M. Underwood; published by the editor, from Columbia University; issued irregularly; \$6.00 per volume; list on application.

**Chemistry, Contributions from the Havemeyer Laboratories.**—Founded in 1898; reprints of papers recording research by officers and students in the School of Chemistry; managing editor, C. F. Chandler; published by the editor from Columbia University; issued annually; each volume contains the publications of one year beginning July 1; price on application.

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R. J. H. Gottheil, Ph.D.; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly; prices variable.

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**Pathology, Studies from the Department of.**—Founded in 1890; records results of research in the department; managing editor, T. M. Prudden; on sale by J. T. Dougherty, New York; issued irregularly; price, per volume (about 175 pp.), \$1.00.

**Philosophy, Psychology, and Education, Contributions to.**—Founded in 1894; original studies by officers and students of this division; managing editor, James McKeen Cattell; published by The Macmillan Co., New York; issued irregularly; per number, average, 75c.; per volume (about 450 pages), average, \$3.00.

**Romance Languages and Literatures, Studies in.**—Founded in 1900; edited by Adolphe Cohn and H. A. Todd; published for the Columbia University Press by The Macmillan Co., New York; issued regularly at varying prices.

No. 2. Dante and the animal kingdom. By RICHARD T. HOLBROOK, Ph.D. (Pp. xviii + 376.)

### *Series Announced*

**Classical Philology, Studies in.**—Founded in 1902; to contain results of original research in the classical languages and literatures; edited by H. T. Peck and E. D. Perry; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly; prices variable.

**Physiology, Studies from the Department of.**—Founded in 1900; to contain reprints of articles published by officers and students of the department; edited by J. G. Curtis and F. S. Lee. (Three volumes in preparation.)

## IV. Journals

### *Issued under the Editorial Direction of Officers of Columbia University*

**Bookman.**—Founded in 1895; devoted to the criticism of American and foreign literature in all its forms; containing articles, book reviews, correspondence, and editorial comment upon current events; edited by Harry Thurston Peck; New York: Dodd, Mead, & Co.; monthly (136 pp.), 20c.; per year, \$2.00.

**Bulletin of the Torrey Botanical Club.**—Founded in 1870; devoted to scientific botany in its widest sense; editor, L. M. Underwood; published by the editor, from Columbia University; monthly, 30c.; per year (about 650 pp., with 40 plates), \$3.00.

**Columbia University Quarterly.**—Continuing, since 1898, the *Bulletin*, founded in 1890; publishes articles on the history, the current activities, and the policy of Columbia, for the information of officers, alumni, and friends of the University; edited by a committee (Chairman, for 1902, A. D. F. Hamlin); published by the Columbia University Press; quarterly (about 112 pages), 30c.; per year, \$1.00.

**Educational Review.**—Founded in 1890; devoted to the study of education in all its forms; containing articles, discussions, book reviews, foreign correspondence, and editorial review of current events; edited by Nicholas Murray Butler; New York: Educational Review Publishing Co.; monthly (except July and August), 108 pp.; per year, \$3.00; foreign, \$3.60.

**Journal of School Geography.**—Founded in 1897; devoted to the interests of teachers of geography; edited by Richard E. Dodge; published by the J. L. Hammett Co., Boston and New York; monthly, except in July and August (40 pp.), 15c.; per year, \$1.00.

**Journal of Nervous and Mental Disease.**—Founded in 1872; devoted to the study of diseases of the nervous system; managing editor, S. E. Jelliffe; advisory board of editors include M. A. Starr and F. Peterson; New York: Alliance Press Co.; monthly (64 pp.), 25c.; per year, \$3.00.

**Medical News.**—Founded in 1843; a weekly journal devoted to advances in medicine and surgery; editor, S. E. Jelliffe; New York: Lea Brothers & Co.; weekly (48 pp.), 10c.; \$4.00 per year.

**Political Science Quarterly.**—Founded in 1886; devoted to the study of politics, economics, and public law; publishes annually about 25 leading articles, especially on questions of current interest, and about 130 reviews, and gives a condensed general record of political events; edited by the Faculty of Political Science (managing editor, W. A. Dunning); Boston and New York: Ginn & Co.; quarterly (about 190 pp.), 75c.; per year, \$3.00.

**Popular Science Monthly.**—Founded in 1872; devoted to the diffusion of science; edited by J. McK. Cattell; New York: The Science Press; monthly (96 pages), 30c.; per year, \$3.00.

**School of Mines Quarterly.**—Founded in 1879; official organ of the Alumni Association of the Schools of Science of Columbia University; devoted to the publication of original papers on engineering, metallurgy, chemistry, architecture, mineralogy, and geology; managing editor, R. E. Mayer; published by the editors; \$2.00 a year.

**Teachers College Record.**—Founded in 1899; devoted to the practical educational problems of the Teachers College of Columbia University; edited by J. E. Russell; New York: published for The

Columbia University Press by The Macmillan Co.; bi-monthly, except July (about 64 pp.), 20c.; per year, \$1.00.

**Torreya.**—Founded in 1901; a monthly journal of botanical notes and news; devoted to shorter articles than appear in the *Bulletin*, together with book reviews; editor, Marshall A. Howe; published by the Club; monthly, 15c.; per year, \$1.00.

*Issued with the Editorial Coöperation of Officers of Columbia University*

**Americana Germanica.**—Founded in 1897; devoted to the comparative study of the literary, linguistic, and other cultural relations of Germany and America; contains original researches, critical articles, and reviews; contributing editors include W. H. Carpenter and Calvin Thomas. New York: The Macmillan Co.; quarterly (about 112 pp.), 75c.; per year, \$2.00.

**American Anthropologist.**—Founded in 1888; containing original contributions and reviews on anthropology; edited by a board, including Franz Boas. New York: G. P. Putnam's Sons; quarterly, \$1.25; per year (about 800 pp.), \$4.00.

**American Historical Review.**—Founded in 1896; directed to promote the interests of historical study in the United States, it publishes reviews of important works, results of original research, documents for the use of investigators, and news of the works of European scholars; six editors, including W. M. Sloane; The Macmillan Co.; quarterly, \$1.50; per year, \$5.00.

**American Journal of Archæology.**—Founded in 1885; official journal of the Archæological Institute of America, publishing papers of the Institute and of the Schools at Athens, in Rome, and in Palestine, and annual reports of these bodies, and issuing special bulletins; associate editors include J. R. Wheeler; business manager is C. H. Young; New York: The Macmillan Co.; quarterly, \$1.50; per year, \$5.00.

**American Journal of Medical Sciences.**—Founded in 1820; S. E. Jelliffe, editorial supervision of Department of Therapeutics, with R. W. Wilcox; Philadelphia: Lea Brothers & Co.; monthly (192 pp.), per year, \$5.00.

**American Journal of Physiology.**—Founded in 1898; edited for the American Physiological Society; contains original contributions on purely physiological subjects; seven editors, including R. H. Chittenden and F. S. Lee; Boston: Ginn & Co.; monthly; per year (about 500 pp.), \$5.00.

**Biological Bulletin.**—Founded in 1899; contains short original contributions; seven editors, including E. B. Wilson.

- Bulletin of the American Mathematical Society.**—Founded in 1891; a historical and critical review of mathematical science, containing also lists of new publications, notes on current events in the mathematical world, and many short original articles; editors, F. N. Cole, D. E. Smith, and others; New York: The Macmillan Co.; monthly, except July and August; per year (about 500 pp.), \$5.00.
- Journal of the American Chemical Society.**—Founded in 1878; official journal of the American Chemical Society; devoted to the publication of articles upon recent chemical investigations and similar topics. The board of reviewers of American chemical research includes M. T. Bogert; published by the Chemical Publishing Co., Easton, Pa.; monthly, 50c.; per year (about 1500 pp.), \$6.00.
- Journal of Comparative Neurology.**—Founded in 1891; devoted to the comparative study of the nervous system; includes original contributions, reviews, and notices; associate editors include O. S. Strong, with collaboration of F. S. Lee and others; published at Granville, Ohio; quarterly; per year, \$3.50.
- Journal of Experimental Medicine.**—Founded in 1896; devoted to the interests of scientific medicine; associate editors include R. H. Chittenden and T. M. Prudden; New York: D. Appleton & Co.; per volume (6 parts, about 700 pp.), \$5.00.
- Journal of Morphology.**—Founded in 1887; contains original contributions on purely morphological subjects; seven editors, including E. B. Wilson; published by Ginn & Co., Boston; quarterly; per year, \$9.00.
- Psychological Review.**—Founded in 1894; devoted to the publication of original researches in psychology, critical articles, and reviews; edited by J. McK. Cattell and J. M. Baldwin (Princeton), with the coöperation of M. Allen Starr and others; published bi-monthly, with an annual index and numerous monograph supplements; New York: The Macmillan Co.; *The Review*, 75c.; per year (about 700 pp.) \$4.00; the *Index* (about 200 pp.), \$1.00; the *Monographs* (about 500 pp.), \$4.00 a volume.
- Science.**—Founded in 1883; devoted to the advancement of science; edited by J. McK. Cattell, with an editorial committee, including N. L. Britton, H. F. Osborn, R. S. Woodward, and others; New York: The Macmillan Co.; weekly, 15c.; per year (about 2000 pp.), \$5.00.
- Transactions of the American Mathematical Society.**—Founded in 1900; devoted primarily to research in pure and applied mathematics; the official organ of the Society for the publication of important papers read before it; three editors, including T. S. Fiske; New York: The Macmillan Co.; quarterly; per year (about 500 pp.), \$5.00.



## V. Student Publications at Columbia

**The Barnard Bulletin.**—Founded in 1901; a four-page sheet, issued weekly, containing a brief account of Barnard College news; 5c. a copy, \$1.50 a year.

**The Columbia Jester.**—Founded in 1901: an illustrated comic paper; edited by a board of students; published twice a month during the college year; 10 pages of reading matter and illustrations and a cartoon cover; 10c. a copy, \$1.00 per year (\$1.50 by mail).

**The Columbia Law Review.**—Founded in 1901; devoted to the publication of legal articles and book reviews by writers of recognized authority, and comment upon recent cases by the editors; conducted by a board of editors, averaging sixteen in number; monthly, November to June, seventy pages; 30c. a copy; \$2.00 a year.

**The Columbia Literary Monthly.**—Founded in 1893; a magazine exclusively literary, devoted chiefly to stories, verse, essays, editorials, and book reviews; edited by a board, consisting generally of eight members, including a Barnard representative; monthly, November to June, 40 pages; 20c. a copy; \$1.50 a year.

**The Columbian.**—The annual; a bound illustrated volume, containing statistics of athletics, fraternity membership, class achievements, and other valuable information of student life in the University for the year just past; published the week before Christmas by a board of twelve editors from the junior class, six elected from Columbia College and six from the Schools of Applied Science. The fourteenth volume published by the class of 1904, at \$1.50.

**The Columbia Spectator.**—Changed in 1899 from a weekly to a semi-weekly newspaper, and in 1902 from a semi-weekly to a daily; published each Tuesday and Friday throughout the college year; edited by a managing board of seven, assisted by an associate staff, averaging fourteen in number; eight pages; 5c. a copy; \$2.00 a year.

**The Morningside.**—Founded in 1896; an illustrated literary magazine, aiming chiefly to reflect the lighter and brighter side of Columbia life; edited by a board, averaging ten members, including a Barnard representative and an art editor; published every third week of the academic year, 20 pages; 10c. a copy; \$1.00 a year.

**The Mortarboard.**—An annual corresponding to the *Columbian*, but more literary in character, including, besides the history of the junior class, poems, stories and sketches, and other reading matter; published early in the second term by a board of about eight, elected from the junior class of Barnard College; price \$1.00.

**The Senior Class-book.**—A book privately printed by the senior class of Columbia College, through an editorial board, and distributed on class-day. Revived by the Class of 1899 and continued by the Class of 1900 as the *Naughty--Naughtians*, by the Class of 1901 as the *1901 Class-book*, and by the Class of 1902 as the *1902 Class-book*, including pictures and autobiographies of the members, letters from the faculty, and the class-day speeches. The 1902 book contains 245 pages, is bound in cloth, and sells for \$6.00.

## Degrees Conferred during 1901-1902

### Bachelor of Arts

#### COLUMBIA COLLEGE

GEORGE CHEW ATKINS	HARRY STEERS HOLLAND
JOHN NORTON ATKINS	BENJAMIN MERRILL HOLT
JAMES BANCROFT	JOSEPH GARDNER HOPKINS
STEPHEN BARKER	GEORGE HAMMOND HUNTING
CLARENCE WHITEMORE BARTOW	CHARLES WHEELER IGLEHART
FRED JACOB BECKER	BURKE PRITCHARD JENKINS
DINO BIGONGIARI	RICHARD HARRY JOHNSTON
ALLAN BEACH ARNOLD BRADLEY	RICHARD KELLY
HARVEY SCOTT BROWN	CHARLES WILLIAM KENNEDY
ERNEST GUNTON BUDINGTON	CHARLES KRUMWIEDE, Jr.
OSCAR BULLARD	JOHN PIERCE LANGS
ARMOUR CALDWELL	ALFRED STRATTON LAWRENCE
RALPH WHITNEY CAREY	WILLIAM WHEELOCK LAWSON
JARVIS POMEROY CARTER	LOUIS VERNON LEDOUX
FRANKLIN MORTIMER CLARK	ELIOT LEE
EDWARD MARTIN COLIE, Jr.	ALFRED HOLMES LEWIS
WILLIAM MAJOR COLLINS	HARRY MIER LEWY
HARRY GABRIEL COWEN	CHARLES CHRISTIAN LIEB
CHARLES ANDERSON DANA	ROBERT JONES LITTELL
GEORGE HENRY DANTON	EDWARD VERN LOCKHART
VICTOR DE BEAUMONT	SAMUEL PIERSON LOCKWOOD
FREDERICK HENRY DUDEN	CLIFFORD BURNETT MACINTYRE
JOSEPH ELI ERON	LYLE EVANS MAHAN
KENNETH CRANE FAILE	CLIVE SPENCER MAPES
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CLINTON EARLE FISK	DANIEL AMMEN MENOCAL
JOHN KNOWLES FITCH	HOWARD BROWN MERRILL
HAROLD EDWARD FORD	REUBEN ALFONSO MEYERS
JOHN CARL ARPAD GERSTER	GEORGE MIDDLETON
WALTER LESTER GLENNEY	WILLIAM MARSIGLIA NESBIT
ALEXANDER GOLDENWEISER	FREDERICK GOLDING OPPENHEIMER
WARNER FOOTE GOOKIN	REUBEN OTTENBERG
GEORGE CHRISTIAN OTTO HAAS	HARRY LILIENTHAL PARR
HAROLD VAN WYCK HALSEY	WALDEN PELL
KENNETH BURT HALSTEAD	WILLIAM WOODFORD PERRINE, Jr.
JAMES HARPER, Jr.	LOUIS PHILLIPS
HENRY SAMUEL HARRIS	HENRY LE BRUN POINIER
ARTHUR GARFIELD HAYS	HENRY STARR PRINCE
HAROLD MELVIN HAYS	OTTO PULLICH
ALFRED MYER HELLMAN	LYMAN RHOADES, Jr.
JAMES HAROLD HEROY	CHAPMAN ROPES
ROBERT BERESFORD HINCKS	THEODORE RAYMOND ST. JOHN
THOMAS HOGAN	EDWARD SCHUSTER

FRANK HOUGHTON SEWALL  
 WILLIAM BROCK SHOEMAKER  
 HENRY KIRKLAND SMITH  
 HAROLD TUTHILL SPENCE  
 JOSEPH WHITTLESEY SPENCER  
 CHARLES CLYDE SPICER  
 SIDNEY LEHMAN SPIEGELBERG  
 WALTER JESSE SPIRO  
 ROBERT LEFFERTS STREBBEIGH  
 HORACE RICHMOND STURTEVANT  
 EDWARD LAROCQUE TINKER  
 GILBERT OAKLEY WARD

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 HENRY JAMES WEST  
 WILLIAM PARKER WHARTON  
 REGINALD SATTERLEE WILLIS  
 STANLEY KIDDER WILSON  
 ARCHIBALD SPIERS WINSLOW  
 FLOYD RIDER WOOSTER  
 AVERY SKINNER WRIGHT  
 JOHN PARR WYLLIE  
 MALCOLM YOHANNAN

## BARNARD COLLEGE

ELIZABETH ALLEN  
 GEORGETTA PLATT ALLER  
 ELSA ALSBERG  
 KATHARINE ARMSTRONG  
 FRANCES ELINOR BELCHER  
 ELSA GUBNER BERGEN  
 FANNY CAMPBELL BERKELEY  
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 HARRIET WRIGHT BURTON  
 ELSA PATTERSON CAMPBELL  
 LYDIA ADELE CARLL  
 EDNA CARA CHAPIN  
 MARGARET ELIZABETH CLARK  
 ELIZABETH CADMUS CODDINGTON  
 CLARA COBURN COOK  
 GRACE LUCILLE DE HART  
 REBECCA STAUNTON DONALD  
 EDITH DURANT  
 EVA OLIVE DUTCHER  
 RUTH EARLE  
 MARGARET GROTE ELLIMAN  
 HELEN ADELAIDE FAIRCHILD  
 ELIZABETH FINNIGAN

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MARY HEDGES FISHER  
 MARY DEDERICK HALL  
 ELEANORE HARRISON HUNT  
 EDITH MAY INGALLS  
 VIOLA LOUISE KIMBALL  
 SUE LIFE LA MONTE  
 JANET ALEXANDER MCCOOK  
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 MARY CAROLYN SHAEEN  
 CARITA SPENCER  
 ELSIE LLOYD TOTTEN  
 LOUISE MATILDA TRIMBLE  
 ELEANOR ELIZABETH VAN COTT  
 ALICE MARION WAUGH  
 UNA ADELE WINTERBURN

## Bachelor of Laws

SIDNEY HENRY AARONS, B.S.  
 HARRY WAGNER ACTON  
 JOHN BROWN ADAMS, A.B.  
 HENRY ALBERS, Jr., A.B.  
 GEORGE HANFORD ANSLEY, A.B.  
 LOUIS KAUFMAN ANSPACHER, A.B., A.M.  
 WILLIAM EDWARD BAIRD, A.B.  
 CHARLES ADKINS BAKER, A.B., A.M.  
 CORNEALIUS C. BEEKMAN  
 BERNARD ADELRIKH BENZIGER, A.B.  
 ROBERT PAUL BEYER  
 BENJAMIN I. BLOCH  
 PAUL NEBEKER BOGART, A.B.  
 NORMAN MACLEOD BURRELL, A.B.  
 ERNEST ABRAHAM CARDOZO, A.B., A.M.  
 HARRISON CLARK, Jr., A.B., A.M.  
 JOHN LAWRENCE COE, Jr.

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 MAURICE EDWARD CONNOLLY  
 BRIDGHAM CURTIS, A.B.  
 ROYAL BARROWS CUSHING, A.B.  
 ALBERT WALTER DUCKWORTH  
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 CHARLES ROYALL FRAZER, A.B., A.M.  
 THOMAS FRANCIS GAGAN  
 CHARLES RANSOM GANTER, A.B.

MERRILL EDWARDS GATES, Jr., A.B.  
 FRANKLIN YOUNG GLADNEY, A.B.  
 SIMON HENRY GLASSCHEIB  
 SAMUEL GOLDBERG, B.S.  
 JAMES HENRY GOULD, A.B.  
 DWIGHT DAVIS GRAVES  
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 EDWIN VINCENT GUINAN  
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 EDWARD WILLIAM HAMILTON, A.B.  
 HOWARD SAWYER HARRINGTON, A.B.  
 SAMUEL MACK HAVENS, A.B.  
 CHARLES HENTSCHEL, Jr.  
 SAMUEL HEYMAN  
 DANIEL VALENTINE HOPPS, A.B.  
 JOSEPH PARKHURST HOWE, A.B.  
 HITE HENRY HUPPAKER  
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 RAE BURN WILLIAM JENKINS, A.B.  
 FREDERICK VINCENT JONES, A.B.  
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 LOYAL LEALE, A.B.  
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 SOL ALBERT LOWENSTEIN  
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 HENRY SMYLES MCGONEGAL  
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 WILLIAM UNDERHILL MOORE, A.B., A.M.  
 HARLEY GREEN MOORHEAD, Ph.B.  
 WILLIAM OSGOOD MORGAN, B.S.  
 GEORGE H. D. MULLIGAN, A.B., A.M.

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JAMES R. B. MULLIGAN, A.B., A.M.  
 VIVIAN MEREDITH MYERS, A.B.  
 CHARLES MELVIN NEFF, Ph.B.  
 SIDNEY OSSOSKI  
 BENJAMIN EDWIN PAGE, A.B.  
 JOHN WARING PARKS, A.B.  
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 A.M.  
 SOLOMON ROTHSCHILD  
 RUDOLPH ALBERT SELIGMANN, A.B., A.M.  
 WILLIAM JOSEPH SMITH, B.S.  
 ROBERT HAMILTON SOUTHARD, A.B.  
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### Doctor of Medicine

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 JOSEPH JEFFERSON ASCH, Jr.  
 MAX BAFF  
 CHARLES FREDERICK BAKER  
 RALPH MUNSON BEACH  
 HAROLD WALSWORTH BELL  
 LEON STANISLAUS BETOWSKI  
 PHILIP BISSELL, A.B.  
 FRANKLIN HENDRICKSON BOOTH, A.B.  
 MAX HENRY BRACKER, Jr.  
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 CHARLES HURST CHANCELLOR  
 LINO SISTO FELICISIMO CHIBAS

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 HENRY JOHN COLE CORRIGAN, A.B., A.M.  
 ALDO BLISS COULTAS  
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 GEORGE HENRY HAHN  
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 CHARLES COTTON HARROLD, B.S.  
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 DAVID MERIWETHER HENNING, M.D.  
 EDWARD HERBERT  
 ARTHUR J. HERZIG  
 ARTHUR CARL HEUBLEIN  
 ISAAC SETH HIRSCH  
 EUGENE FRANCIS HUME  
 WILLIAM HENRY JACOB  
 FRANK DORMER JENNINGS  
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 HENRY KRAUSKOPF  
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 A.B.  
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 A.M.  
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 LOUIS DURANT MEADE, B.S.  
 HAROLD DENMAN MEEKER, A.B.  
 WILLIAM HENRY MEYER  
 SAMUEL RAMSEY MILLIKEN, B.S.  
 SETH MINOT MILLIKEN, A.B.  
 PARLEY WILLIAMS MONROE, B.S.  
 FRED HENRY MOSLER  
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 VICTOR HOWARD PENTLARGE  
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 ORAN ARNOLD PROVINCE, A.B.  
 FRANCIS WINTHROP PYLE, A.B.  
 JOHN ADAM QUELL, Jr.  
 HERMAN THEODORE RADIN, A.B.  
 GOODRICH BARBOUR RHODES, A.B.  
 JAMES FRANCIS RICE, A.B., A.M.  
 AUSTEN FOX RIGGS, A.B.  
 ROBERT HUGH ROSE, A.B.  
 BENJAMIN ROSENBLUTH  
 MICHAEL ROSENBLUTH  
 CHARLES KIRKLAND ROYS, A.B.  
 JOSEPH FREDERICK SAPHIR  
 DAVID LAWRENCE SATENSTEIN  
 LOUIS SCHEINBERG  
 HERMANN VON WECHLINGER SCHULTE,  
 A.B.  
 WALTER SECKEL  
 ISADORE SEFF  
 ERNEST EDWARD SELLECK, Ph.B.  
 HENRY BURR SIGLAR, A.B.  
 MORRIS SILK, A.B.  
 ANDREW SLOAN  
 ARCHIBALD DELAP SMITH, A.B.  
 DAVISON HEERMANCE SMITH, A.B.  
 EDWARD ANTHONY SPITZKA  
 HENRY FARNUM STOLL  
 SAMUEL MEREDITH STRONG  
 JOHN JEROME SULLIVAN, A.B., A.M.  
 EDWARD BLAIR SUTPHEN  
 CHARLES ANTHONY SYLVIA  
 HENRY WOODRUFF TITUS, A.B.  
 WILLIAM BECKER VAN ALSTYNE  
 FREDERICK THEODORE VAN BEUREN, Jr.,  
 A.B.  
 FRANK BRUSH VAN WART  
 JAMES JOSEPH SEBASTIAN WALSH, B.S.  
 EARL PHILIP WARREN  
 HENRY EDWIN WATERHOUSE  
 FRANK REED WEBB  
 CHARLES EDWARD WEBSTER, Jr., A.B.  
 WILLIAM HENRY WELLS, C.E., Ph.G.  
 WILLIAM BEVERLY WESTCOTT  
 FRED GEORGE WEYGANDT  
 ALFRED WINSLOW WHEELER  
 GEORGE DOUGLAS WHITE  
 EDWARD REED WHITEMORE, A.B.  
 HERBERT BUDINGTON WILCOX, A.B.  
 JACOB LEWIS WOLLHEIM

**Engineer of Mines**

MASON TYLER ADAMS, A.B.  
 CHARLES EDWARD WAGSTAFFE BATESON  
 ROBERT HEWITT CROMWELL  
 ARTHUR FEUST  
 HORACE FLETCHER LUNT, A.B.  
 FREDERICK MAEULEN  
 FREDERICK CHARLES MERRY  
 FREDERICK HITCHCOCK MORLEY, A.B.  
 AUGUSTINE LEON JEAN QUENEAU, B.S.

[17]

THOMAS THORNTON READ  
 ALBERT ROBERTS, B.S.  
 FRANS JOHANNIS VON MALTITZ SCHIMPER  
 JOHN NELSON SHREVE  
 HOWARD RACE STEWART  
 CHARLES EDWARD WATSON  
 WILLIAM DE BURGH WHYTE  
 CHARLES HENRY WILSON

**Civil Engineer**

SAMUEL DAVID BLEICH, B.S.  
 JOSEPH ATWATER CLOSE  
 MELCHOR ESTANISLAO GASTON Y ROSELL,  
 A.B., B.S.  
 CHARLES FANNING HASTINGS  
 MEYER HIRSCHTHAL, B.S.

[11]

FREDERICK BRICE IRVINE  
 ALLAN MACLEAN, A.B.  
 CHARLES MAYNARD MAPES  
 WILLIAM ALOYSIUS MURPHY  
 CARL TOMBO, B.S.  
 CHARLES RAPELYEA WYCKOFF, Jr., B.S.

**Electrical Engineer**

HAROLD PLATT DANIELS  
 SIDNEY DIAMANT  
 HARRY PAUL FREUND  
 CARL PAUL GOEPEL  
 OLIVER REMICK GRANT  
 CLIFFORD GRAY  
 HENRY FIELD HAVILAND  
 WALLACE MUNROE HYMAN  
 JOSEPH AUGUSTUS McANERNEY  
 PHILIP CHARLES MENGES, B.S.  
 WILLIAM CHARLES MORRELL  
 LEO JEREMIAH O'DONOVAN, A.B.

[23]

JAMES EDWARD O'SHEA  
 WALTER HAYWARD POWERS  
 GIRARD B. ROSENBLATT  
 LEON WALTER ROSENTHAL  
 ISAAC ROSH SOLOMON  
 WILLIAM EVERETT VER PLANCK  
 HAROLD VON BRIESEN  
 WILLIAM MURRAY WALLACE  
 CELESTIN JOHN WELCKE  
 FRANCIS JOSEPH WHITE  
 ARTHUR A. ZUCKER

**Metallurgical Engineer**

REGINALD MEEKS

[1]

**Mechanical Engineer**

HENRY BERRY BRITTON  
 BENJAMIN FRANKLIN CLARK, Jr.  
 ROBERT WALTER MAXWELL CLARKE  
 CLARENCE PHILIP CRISSEY  
 LOUIS ALLSTON GILLETT, Ph.B.  
 LEOPOLD S. GREENBAUM  
 WALTER PERCY HATCH, Jr.  
 WALTER COLLUZIE KRETZ, Ph.D.  
 CHARLES STEPHEN MARSTON  
 WALTON LIVINGSTON OAKLEY  
 CASIN WATSON OBERT

[21]

LESLIE ROBERT REIS  
 JULIAN PIERRE WILLIAM RICHMOND  
 LEANDRO JOSÉ RIONDA  
 SAMUEL McNUTT ROSS  
 PHILIP SCHLOSSER  
 ROSSITER LESTER WATERS  
 ALFRED WILLIAMSON  
 ELIAS RALPH WILNER  
 RUDOLF WENDELIN WITTEMAN  
 DENNISTOUN WOOD, Jr.

**Bachelor of Science**

(Course in Chemistry)

HARRY CAMPBELL BRENNEMAN  
 JOSEPH LOUIS DANZIGER  
 ALBERT ERNEST DICKIE

[6]

CLARENCE WHITNEY KANOLT  
 LOTHAIR S. KOHNSTAMM  
 OSCAR WALTER PALMENBERG

**Bachelor of Science**

(Course in Architecture)

ELLIOTT LOCKWOOD BROWN  
 ARTHUR HENRY BUSSMANN  
 LAURENCE HALL FOWLER, A.B.  
 HERBERT GODWIN  
 JOHN THEODORE HANEMANN  
 ARTHUR LOOMIS HARMON  
 GEORGE WASHINGTON JACOBY  
 CHARLES SUMNER KAISER  
 [15]

DAVID KEPPEL  
 DAVID HEYDORN RAY, A.B.  
 JOSEF ANTON SCHERRER  
 EUGENE JOHN SCHOEN  
 KARL FRANCIS JOSEPH SEIFERT  
 WILLIAM TILMAN WARREN, B.S.  
 FRED FIELDING WILLSON

**Bachelor of Science**

(Course in Education)

DENA BAER  
 ELSA BEHR  
 RUSSELL HEACOCK BELLOWS  
 HENRIETTA WOODWORTH CAREY  
 LOUISE CLARK  
 MARGARET HIGGINS CURTIN  
 WILLIAM EUGENE FREEMAN  
 MARY IRENE HESS  
 ANNE BUSH MACLEAR  
 [17]

FRANCES ELBERTINE McRAE  
 SUSANNE REBECCA MARION MILLER  
 NAOMI NORSWORTHY  
 ADA MARIA SKINNER  
 FANNY TATTERSHALL  
 ELIZABETH TENER  
 MARY CHEVES WEST  
 EMMA WETTILIN

**TEACHERS COLLEGE DIPLOMAS****Doctor's Diploma in Education**

FRANK PUTERBAUGH BACHMAN  
 A.B., University of Chicago, 1896.

EDWIN CORNELIUS BROOME  
 Ph.B., Brown University, 1897; A.M.,  
 1898.

FRANK ROLLINS  
 A. B., Wesleyan University, 1889.

[3]

**Master's Diploma in Education**

LEWIS BURTON ALGER  
 Ph.B., University of Michigan, 1897;  
 A.M., Columbia University, 1901.  
 RUSSELL HEACOCK BELLOWS  
 MABEL BOAK  
 A.B., Vassar College, 1901.  
 ANNIE MABEL BROOKS  
 A.B., Smith College, 1898.  
 ELIZABETH HANKINSON BUNNELL  
 A.B., Mt. Holyoke College, 1894.  
 DAVID EXCELMONS CLOYD  
 Ph.B., University of Minnesota, 1901.  
 MARION SARAH COAN  
 A.B., Bates College, 1899.  
 HARRISON S. COLBURN  
 B.S., Purdue University, 1900.  
 MARGARET ELSIE CROSS  
 B.S., Normal College, Danville, Indiana, 1888.  
 ELLWOOD P. CUBBERLEY,  
 A.B., University of Indiana, 1891.  
 HARRIETTE ARMS CURTISS  
 Ph.B., Syracuse University, 1900.

EDWIN LYEAL EARLE  
 Ph.D., University of Rome, 1902.  
 DARIUS EATMAN  
 A.B., University of North Carolina,  
 1897.  
 ABRAM FISCHLOWITZ  
 B.S., College of the City of New York,  
 1890; C.E., New York University,  
 1895.  
 EMMA ABBIE FOUNTAIN  
 A.B., Colby College, 1895.  
 EDWARD MONTAGUE GAMMON  
 A. B., University of Georgia,  
 1895.  
 HARRY HOPKINS HUBBELL  
 A.B., Williams College, 1898.  
 PHINEAS ISRAELI  
 A.B., College of the City of New York,  
 1899.  
 WILLIAM FRANK LITTLE  
 A.B., Wesleyan University, 1892.  
 HOLLY WHITFORD MAXSON  
 A.B., Alfred University, 1897.



- MARY PERCIVAL  
A.B., Mt. Holyoke College, 1898.  
JAMES JOSEPH REYNOLDS  
B.S., College of the City of New York,  
1893; LL.B., New York University,  
1897.  
ALEXANDER GODFREY SMITH  
A.B., Columbia University, 1900;  
Secondary Diploma, Teachers Col-  
lege, 1900.

[28]

**Higher Diploma**

- WILHELMINA CATHERINE BELLER  
WILLIS BOUGHTON, Ph.D.

[4]

**Secondary Diploma**

- ARTHUR POND BALDWIN, A.M.  
ALICE CASAMAJOR, A.B.  
FREDERICK WILLIAM JUSTUS HEUSER,  
A.B.  
MARGARET EDITH JOHNSON, A.B.

[8]

**Bachelor's Diploma in Education**

For teaching in secondary schools

- HERMAN ABRAMOWITZ, A.B. (English)  
ANTOINETTE AFFELD, A.B., (German)  
ELIZABETH ALLEN (Mathematics)  
KATHARINE ARMSTRONG (History)  
MARTHA ANN BEECHER, Ph.B. (Mathe-  
matics)  
ELSA BEHR (Mathematics)  
FANNY CAMPBELL BERKELEY (English)  
GRACE EDITH BOOTE (English)  
MARY HUNT BUDD (Mathematics)  
MARY OLIVER BURR, B.L., (German)  
LYDIA ADELE CARLL (English)  
EDNA CARA CHAPIN (Physical Science)  
ELIZABETH CADMUS CODDINGTON (Latin)  
SIDNEY HARRY DIXON, A.B., (Latin)  
MARGARET GROTE ELLIMAN (English)  
HELEN ADELAIDE FAIRCHILD (Latin)  
WILLIAM EUGENE FREEMAN (History)  
ALICE SCHIEFFELIN GIBSON, A.B. (Eng-  
lish)

[34]

**Elementary Schools**

- MARION BLAKE  
LOUISE CLARK  
MYRA BREWSTER CLARKE  
LAURA REDINGTON FROST  
ANNA MELISSA GRAVES  
ANNA BINGHAM HAMMOND  
HANS OLAF HANSON, A.B.  
MARION LIVINGSTON HENDERSON  
MARY IRENE HBSS  
EDITH MCLEOD  
GERTRUDE ESTELLE MABREY

[22]

- ANTHONY HENRY SUZZALLO  
A.B., Leland Stanford Jr., Univer-  
sity, 1899.  
BEEKMAN RAMSEY TERHUNE  
A.B., Princeton University, 1901.  
LAKE GEORGE WATSON  
Ph.B., Earlham College, 1900.  
OSCAR I. WOODLEY  
A.B., Albion College, 1901.  
ADRIAN MONROE YARRINGTON  
B.L., Cornell University, 1892.

- FREDERIC LOWELL GREENE, A.M.  
WILLIAM B. RAFFERTY, A.B.

- KATHARINE HEDGES MEIGS, A.B.  
ROBERT INSALL RAIMAN, A.M.  
LAURA ISABEL STONE, A.B.  
ISAAC YOHANNAN, A.M.

- GRACE GARDNER GILMAN, A.B. (English)  
MARY DEDERICK HALL (Latin)  
ELEANORE HARRISON HUNT (Latin)  
GEORGE HAMMOND HUNTING (English)  
VIOLA LOUISE KIMBALL (Latin, Mathe-  
matics)  
ALFRED HOMES LEWIS (Latin, Mathe-  
matics)  
ERNESTINE JULIA MOLWITZ (Physical  
Science)  
GRACE MALVINA PETERS (Mathematics)  
ROSINA JULIA RENNERT (Biology)  
JEANNETTE ROWLAND SEIBERT (English,  
Mathematics)  
ANNIE LIDDELL SEWARD (Mathematics)  
MARY CAROLYN SHAEN (English)  
LOUISE MATILDA TRIMBLE, A.B. (English)  
ELEANOR ELIZABETH VAN COTT (Latin)  
WILLIAM PARKER WHARTON (English)  
MALCOLM YOHANNAN (Latin)

## Kindergartens

BIRD ALLEN  
 MARGARET REBECCA AUSTIN  
 ELIZABETH BEAMAN  
 MARY LYDIA BOWER  
 JANE WHEELER BRUSH  
 HENRIETTA WOODWORTH CAREY  
 [11]

MARY EATON, B.L.  
 HARRIETTE ELIZABETH GUNN  
 FLORENCE AMELIA KELLOGG  
 CORA ROSE LEOPOLD  
 ALICE JANE WORDEN

## Domestic Art

ROSE FREED  
 HELEN GRAY NOBLE  
 [3]

ELIZABETH SAGE

## Domestic Science

EVA GERTRUDE BEDELL  
 MABEL RICHARDS DULON  
 MARY DUTCHER  
 AMÉLIE MARGARET FARQUHAR  
 MARY LOVE GOWER  
 BELLE HEDDEN JORALEMON  
 SARAH MILLER  
 [14]

BERTHA ELLEN PERHAM  
 JESSIE PINNING RICH  
 MAY SECREST  
 EUNICE ELIZA STRONG  
 CORA EDITH SWINGLE  
 MARY LOUISE TUTTLE  
 MARY LEIGHTON WALLACE

## Fine Arts

ELLA FRIEDMAN  
 MARY FORWARD KOOSER  
 ANNA NORDELL  
 [5]

JESSIE CARY STANGLAND  
 HELEN MARIA TURNER

## Manual Training

HENRY EWING COLTON  
 HARRIET MARIA GOODRICH  
 CHARLES LOUIS JACOBS  
 [6]

WILLIAM NOYES  
 JOHN THOMSON  
 GRACE VINCENT

## Fine Arts and Manual Training

OTTILIE PAMELA STABER

[1]

## MASTER OF ARTS

JOHN WILLIAM ADAMS  
 A.B., Cornell University, 1901.  
 ANTOINETTE AFFELD  
 A.B., Vassar College, 1901.  
 LEWIS BURTON ALGER  
 Ph.B., University of Michigan, 1897.  
 SAUL BADANES  
 Pd.M., New York University, 1891;  
 Pd.D., 1894.  
 NORRIS CALEB BAILEY  
 B.S., Wesleyan University, 1899.  
 FLORENCE THEODORA BALDWIN  
 A.B., Columbia University, 1900.  
 JOHN MICHEL BARRETT  
 A.B., Georgetown University, 1899.  
 MARTHA ANN BEECHER  
 Ph.B., Syracuse University, 1894.  
 WILLIAM FRANCIS BEERS, Jr.  
 A.B., Columbia University, 1901.  
 CLARA DE LISSA BERG  
 A.B., Columbia University, 1898.

CLINTON AMBROSE BILLIG  
 A.B., Ohio Wesleyan University,  
 1898.  
 ARTHUR HORACE BLANCHARD  
 C.E., Brown University, 1899.  
 SAMUEL DAVID BLEICH  
 B.S., College of the City of New York,  
 1899.  
 MABEL BOAK  
 A.B., Vassar College, 1901.  
 VICTOR FITCH MOUNT BONSALE  
 A.B., Columbia University, 1901.  
 ARTHUR JEROME BOYNTON  
 Ph.B., Beloit College, 1896; A.B.,  
 Harvard University, 1901.  
 ANNIE MABEL BROOKS  
 A.B., Smith College, 1898.  
 IRVING CRAWFORD BULL  
 Ph.B., Yale University, 1901.  
 RALPH JAMES M. BULLOWA  
 A.B., College of the City of New  
 York, 1900.

- ELIZABETH HANKINSON BUNNELL  
A.B., Mt. Holyoke College, 1894.
- MARGARET FRANCES BYINGTON  
A.B., Wellesley College, 1900.
- HERBERT GRANT CAMPBELL  
Ph.B., Cornell College (Ia.), 1896.
- ALICE CASAMAJOR  
A.B., Adelphi College, 1899.
- RAYMOND CHAMBERLAIN  
Ph.B., Illinois Wesleyan University,  
1900; A.B., Columbia University,  
1901.
- VALENTINE LAURA CHANDOR  
A.B., Columbia University, 1900.
- MIRIAM FOSTER CHOATE  
A.B., Smith College, 1899.
- EMILY JOSEPHINE CLARK  
A.B., Wellesley College, 1882; M.A.,  
1893.
- DAVID EXCELMONS CLOYD  
Ph.B., University of Minnesota, 1901.
- MARION SARAH COAN  
A.B., Bates College, 1891.
- MARGARET ELMER COE  
A.B., Smith College, 1897.
- HARRISON SIZER COLBURN  
B.S., Purdue University, 1900.
- ELIZABETH CHRISTINE COOK  
A.B., Smith College, 1899.
- HERBERT GOULD CROCKER  
B.L., Washburn College, 1897.
- MARGARET ELSIE CROSS  
B.S., Central Normal College (Ind.),  
1888.
- ELLWOOD P. CUBBERLEY  
A.B., University of Indiana, 1891.
- HARRIETTE ARMS CURTISS  
Ph.B., Syracuse University, 1900.
- ELIZABETH TERESA DALY  
A.B., Bryn Mawr College, 1901.
- ALICE BELLE DAWSON  
A.B., Oxford College, 1891.
- JEAN LOUISE DE FOREST  
Ph.B., Wesleyan University, 1896.
- SIDNEY HARRY DIXON  
A.B., Columbia University, 1900.
- KNOWLTON DURHAM  
A.B., Columbia University, 1901.
- WILLIAM OLIVER EASTON  
A.B., Wittenberg College, 1893.
- DARIUS EATMAN  
A.B., University of North Carolina,  
1897.
- AARON EISEMAN  
Ph.B., New York University, 1901.
- ISABEL ELIAS  
A.B., Trinity College (N. C.), 1899.
- CHARLES ALBERT FACH  
B.S., University of Missouri, 1901.
- JOSEPH DIEHL FACKENTHAL  
A.B., Columbia University, 1900.
- EDITH MIRIAM FAIRCHILD  
Ph.B., Berea College, 1897.
- FRANK ANDREWS FALL  
A.B., Albion College, 1899.
- FREDERIC ERNEST FARRINGTON  
A.B., Harvard University, 1894.
- ABRAM FISCHLOWITZ  
B.S., College of the City of New York,  
1890; C.E., New York University,  
1895.
- EMMA ABBIE FOUNTAIN  
A.B., Colby University, 1895.
- MOSES LEONARD FRAZIER  
Ph.B., Mt. Union College, 1896;  
Ph.M., 1899; LL.B., New York Law  
School, 1899.
- SIDNEY MARSDEN FUERST  
A.B., Columbia University, 1901.
- EDWARD MONTAGUE GAMMON  
B.S., University of Georgia, 1895.
- ROBERT MCCHEYNE GEORGE  
A.B., Geneva College, 1897.
- WALTER DIEDRICH GERKEN  
B.S., Cornell University, 1899.
- ALICE SCHIEFFELIN GIBSON  
A.B., Vassar College, 1901.
- HENRY STARR GIDDINGS  
A.B., Columbia University, 1900.
- HARRY ALLEN GORDON  
A.B., College of the City of New  
York, 1901.
- ANNA LIGUORIA GRAY  
Ph.B., Brown University, 1899.
- GLEN ARNOLD GROVE  
A.B., Colgate University, 1897.
- PAULA GRÜN  
Certif. K. K. Lehrer-Bildungs-An-  
stalt, Vienna, 1895.
- JOHN WILLIAM HALL  
B.S., Columbia University, 1901.
- EDGAR HALLIDAY  
A.B., Princeton University, 1898.
- LENDA TRACY HANKS  
A.B., Columbia University, 1901.
- JOHN FERGUSON HARPER  
B.S., College of the City of New  
York, 1901.
- HOWARD SAWYER HARRINGTON  
A.B., Columbia University, 1899.
- CHARLES COTTON HARROLD  
B.S., University of Georgia, 1898.
- SAMUEL PERKINS HAYES  
A.B., Amherst College, 1896.
- FELIX HECHT  
B.S., College of the City of New  
York, 1900.

- FLORENCE FRENCH HENRY  
A.B., Cornell University, 1901.
- FREDERICK WILLIAM JUSTUS HEUSER  
A.B., Columbia University, 1901.
- CARRIE MAY HILLEMEIER  
A.B., Wellesley College, 1901.
- ABBIE SYLVIA HODGETTS  
A.B., Nebraska Wesleyan University, 1896.
- DANIEL VALENTINE HOPPS  
A.B., University of Georgia, 1899.
- HARRY HOPKINS HUBBELL  
A.B., Williams College, 1898.
- PERCY HUGHES  
A.B., Alfred University, 1899.
- RAEBURN WILLIAM JENKINS  
A.B., College of the City of New York, 1899.
- HENRY JOHNSON  
B.L., University of Minnesota, 1889.
- MARGARET EDITH JOHNSON  
A.B., Adelphi College, 1899.
- HILDA EMILY JOSEPH TAL  
A.B., Columbia University, 1901.
- MORDECAI MENAHEM KAPLAN  
A.B., College of the City of New York, 1900.
- GEORGE BECKWITH KEEBLER  
A.B., Columbia University, 1901.
- MARY STEWART KENNEDY  
Pd.M., New York University, 1899;  
A.B., Adelphi College, 1901.
- WILLIS HOLMES KERR  
A.B., University of Omaha, 1900.
- ADÈLE LOUISE KLEIN  
A.B., University of Michigan, 1901.
- WALTER THOMAS KOHN  
A.B., College of the City of New York, 1900.
- TOSABURO KONNO  
Equiv. A.B., Tokyo Law School, 1894.
- ROSE LOIS KRAKER  
A.B., Columbia University, 1901.
- ROBERT PERCY LEVIS  
A.B., University of Rochester, 1898.
- SAMUEL SAMTER LEVY  
A.B., Yale University, 1900.
- EMILY PAULINE LOCKE  
B.L., Smith College, 1900.
- LOUISE ROPES LOOMIS  
A.B., Wellesley College, 1897.
- OSCAR LOWENSTEIN  
A.B., Columbia University, 1900.
- MARGARET McLEAN  
A.B., Southwestern University, 1892.
- JAMES CALLANAN MADIGAN  
A.B., College of the City of New York, 1900.
- JOHN HAROLD MARSCHING  
Abiturienten-Zeugnis, Oberrealschule, Freiburg i. B., Germany, 1900.
- GEORGE KEMPTON MARTIN  
B.S., College of the City of New York, 1893.
- HOLLY WHITFORD MAXSON  
A.B., Alfred University, 1897.
- LEWIS DURANT MEAD  
B.S., University of California, 1898.
- KATHARINE HEDGES MEIGS  
A.B., Smith College, 1891.
- CHARLES CLARK MILLER  
A.B., Princeton University, 1900.
- HARRY BRAINERD MITCHELL  
A.B., Amherst College, 1901.
- CHARLES BARCLAY MOORE  
A.B., Wabash College, 1900.
- JOHN ARTHUR MORGAN  
E.E., Lafayette College, 1901.
- GEORGE MORRIS  
B.S., Rutgers College, 1889; M.S., 1894.
- CHARLES EDWARD MORRISON  
B.S., College of the City of New York, 1897.
- GEORGE FRANK NASON  
Equiv. A.B., Cumberland University, 1897.
- VIRGINIA NEWCOMB  
A.B., Columbia University, 1900.
- THOMAS EDWARD O'BRIEN  
A.B., Columbia University, 1900.
- MARY PERCIVAL  
A.B., Mt. Holyoke College, 1898.
- FREDERICK TORREL PERSONS  
A.B., Yale University, 1894.
- ERNEST WILLIAM SUTTON PICKHARDT  
A.B., Harvard University, 1898;  
LL.B., New York Law School, 1900.
- MAY HINTON POLLOCK  
A.B., Columbia University, 1896.
- OSCAR LEWIS POND  
A.B., Indiana University, 1899.
- SALAMON ZUSCHA PROKESCH  
Ph.B., New York University, 1900.
- WILLIAM BERNARD RAFFERTY  
A.B., St. Lawrence University, 1890.
- DAVID HEYDORN RAY  
A.B., College of the City of New York, 1897; B.S., Columbia University, 1902.
- WILLIAM T. REICH  
Mech.E., Technical University of Vienna, 1888.
- KATHARINE CAMPBELL REILEY  
A.B., Vassar College, 1895.
- ROSINA JULIA RENNERT  
A.B., Columbia University, 1901.

- JAMES JOSEPH REYNOLDS  
B.S., College of the City of New York, 1893; LL.B., New York University, 1897.
- ALFRED EUGENE ROBERTS  
A.B., Wesleyan University, 1899.
- SARAH GRACE ROYCE  
A.B., Smith College, 1890.
- EDNA BELL SIMPSON  
A.B., Columbia University, 1900.
- HERBERT FEDOR SMALL  
A.B., Columbia University, 1901.
- ALEXANDER GODFREY SMITH  
A.B., Columbia University, 1900.
- JOHN BOYCE SMITH, Jr.  
A.B., Columbia University, 1901.
- PRESERVED SMITH  
A.B., Amherst College, 1901.
- JOHN OAKLEY SPENCER  
Ph.B., Illinois Wesleyan University, 1888; Ph.D., 1894.
- EVERETT BIRNEY STACKPOLE  
A.B., Bowdoin College, 1900.
- CHARLES COMFORT STARR  
Ph.B., Yale University, 1900.
- BEATRICE STEPANEK  
A.B., Wellesley College, 1895.
- ANTHONY HENRY SUZZALLO  
A.B., Leland Stanford, Jr., University, 1899.
- HODZUMI TANAKA  
A.B., Tokyo-Semmon-Gakko, 1896; A.M., 1898.
- BEEKMAN RAMSEY TERHUNE  
A.B., Princeton University, 1901.
- HUGH PHILIP TIEMANN  
B.S., Columbia University, 1900.
- EDWIN CARLETON UPTON  
B.S., University of Maine, 1897.
- [155]
- FLOYD THOMAS VORIS  
B.S., Highland Park Normal College, 1892; M.S., 1900.
- JOHN EDGAR WADE  
B.S., College of the City of New York, 1897.
- MARK WALDMANN  
Graduate of Lehrer-Seminar, Berlin, 1895; of Königl-Lehrer-Seminar, Sagan, 1899.
- MARTIN WALKER  
A.B., Concordia College, 1896.
- LAKE GEORGE WATSON  
Ph.B., Earlham College, 1900.
- MAYER JOSEPH WEINSTEIN  
A.B., Columbia University, 1900.
- HERMAN JAY WELLS  
A.B., Williams College, 1887.
- CHARLES PARTRIDGE WESTON  
B.C.E., Maine State College, 1896; C.E., University of Maine, 1899.
- MYRA WIRÉN  
B.L., Minnesota State University, 1900.
- NATHAN WOLF  
Ph.B., New York University, 1900.
- LOREN NEWTON WOOD  
B.S., Carleton College, 1899.
- OSCAR ISRAEL WOODLEY  
A.B., Albion College, 1901.
- LORANDE LOSS WOODRUFF  
A.B., Columbia University, 1901.
- CHARLES RAPELYEA WYCKOFF, Jr.  
B.S., Polytechnic Institute of Brooklyn, 1899.
- ADRIAN MONROE YARRINGTON  
B.L., Cornell University, 1892.
- STARK YOUNG  
A.B., University of Mississippi, 1901.

## DOCTOR OF PHILOSOPHY

- WILLIAM ALFRED ACKERMAN  
A.B., Lafayette College, 1894; A.M., 1897.  
Dissertation: The Administration of Public School Text-books in the United States.
- FRANK PUTERBAUGH BACHMAN  
A.B., University of Chicago, 1896.  
Dissertation: The Public Elementary School Curriculum of England.
- BENJAMIN ARTHUR BENSLEY  
A.B., University of Toronto, 1896.  
Dissertation: The Evolution of the Australian Marsupialia with Remarks on the Relationship of the Marsupials in General.
- LEOPOLD BOROSCHKE  
B.S., College of the City of New York, 1897; A.M., Columbia University, 1900.  
Dissertation: Some New Derivatives of the Mono Nitro Ortho Phthalic Acids.
- ROBERT HENRY BRADFORD  
B.S., University of Utah, 1895.  
Dissertation: Reactions of the Zier-vogel Process, and their Temperature Limits.

## EDWIN CORNELIUS BROOME

Ph.B., Brown University, 1897;  
Ph.M., 1898.  
Dissertation: A Historical and Critical Discussion of College Admission Requirements.

## MARIANNA CATHERINE BROWN

A.B., Vassar College, 1895.  
Dissertation: Sunday-School Movements in America.

## WILLIAM AUSTIN CANNON

A.B., Leland Stanford, Jr., University, 1899; A.M., 1900.  
Dissertation: Studies in Plant Hybrids.

## ISRAEL DAVIDSON

A.B., College of the City of New York, 1895.  
Dissertation: Parody and Related Forms in Jewish Literature.

## STEPHEN PIERCE HAYDEN DUGGAN

B.S., College of the City of New York 1890; M.S., 1896; A.M., Columbia University, 1899.  
Dissertation: The Turkish Question: a Study in Diplomacy.

## ROBERT HEYWOOD FERNALD

B.M.E., Maine State College, 1892; M.E., Case School of Applied Science, 1898; A.M., Columbia University, 1901.  
Dissertation: Working Details of a Gas-Engine Test, Including a Method of Determining the Temperatures of Exhaust Gases.

## JAMES WILFORD GARNER

B.S., Mississippi Agricultural and Mechanical College, 1892; Ph.M., University of Chicago, 1900.  
Dissertation: Reconstruction in Mississippi.

## CARL GUNDERSEN

A.B., Leland Stanford, Jr., University, 1897; A.M., Columbia University, 1899.  
Dissertation: On the Measure or Content of Assemblages of Points.

## GERTRUDE MARY HIRST

Equiv. A.B., Cambridge University England, 1890.  
Dissertation: The Cults of Olbia.

## RICHARD THAYER HOLBROOK

A.B., Yale University, 1893  
Dissertation: Dante and the Animal Kingdom.

## GEORGE ALLEN HUBBELL

B.S., Antioch College, 1890; A.M., 1891.  
Dissertation: Horace Mann in Ohio.

## WILLIAM HALLOCK JOHNSON

A.B., Princeton University, 1888; B.D., A.M., 1897.  
Dissertation: The Free-Will Problem in Modern Thought.

## CASSIUS JACKSON KEYSER

B.S., Missouri State University, 1892; A.M., Columbia University, 1896.  
Dissertation: The Plane Geometry of the Point in Space of Four Dimensions.

## YETARO KINOSITA

A.B., Hiram College, 1899; A.M., Yale University, 1901.  
Dissertation: The Past and Present of Japanese Commerce.

## GEORGE ALFRED LAWRENCE

A.B., Leland Stanford, Jr., University, 1892; M.D., Columbia University, 1895; A.M., 1896.  
Dissertation: Studies upon the Cerebral Cortex in the Normal Human Brain and in Dementia Paralytica.

## DAVID LEVINE

A.B., College of the City of New York, 1896.  
Dissertation: "Bustan al-Ukul," or "The Garden of the Sciences."

## CHARLES EDWARD LUCKE

B.S., College of the City of New York, 1895; M.S., New York University, 1899.  
Dissertation: The Heat-Engine Problem.

## NEWTON D. MERENESS

A.B., University of Michigan, 1892; A.M., 1894.  
Dissertation: Maryland as a Proprietary Colony.

## FLOYD JAY METZGER

Ph.B., Buchtel College, 1899.  
Dissertation: A New Separation of Thorium from Cerium, Lanthanum and Didymium, and its Application to the Analysis of Monazite.

## ULRICH BONNELL PHILLIPS

A.B., University of Georgia, 1897; A.M., 1899.  
Dissertation: Georgia and State Rights.

## CHARLES JOSEPH PRETZFELD

A.B., Columbia University, 1898;

A.M., 1900.

Dissertation: A New Separation of Mercury from Arsenic, Antimony, and Copper.

## CHARLES LEE RAPER

A.B., Trinity College, North Carolina, 1892.

Dissertation: North Carolina; a Royal Province.

## AUSTIN FLINT ROGERS

A.B., University of Kansas, 1899;

A.M., 1900.

Dissertation: Crystallographic Studies.

## FRANK ROLLINS

A.B., Wesleyan University, 1899.

Dissertation: School Administration in Municipal Government.

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## JOHN CUTLER TORREY

A.B., University of Vermont, 1898.

Dissertation: The Early Development of Thalassema.

## MABEL HURD WILLETT

B.L., Smith College, 1895.

Dissertation: The Employment of Women in the Clothing Trade.

## ABRAHAM YOHANNAN

A.B., Urmiah College, Persia, 1870;

A.M., Columbia University, 1895.

Dissertation: Modern Syriac Dictionary.

## LEWIS ADDISON YOUTZ

Ph.B., Simpson College, 1890; Ph.M., 1893.

Dissertation: A Study of the Quantitative Determination of Antimony.

## HONORARY DEGREES

## Doctor of Science

SAMUEL BENEDICT CHRISTY, Ph.D.

*Professor of Mining and Metallurgy in the University of California*

## Doctor of Laws

EDWARD WASHBURN HOPEKINS, Ph.D.

*Professor of Sanskrit and Comparative Philology in Yale University*

MICHAEL ERNEST SADLER, A.M.

*Director of Special Inquiries and Reports, Education Office, London, England*

MARIE-JOSEPH ALFRED CROISSET, Litt.D.

*Dean of the Faculty of Letters in the University of Paris*

THE RIGHT REVEREND JOHN LANCASTER SPALDING, S.T.D.

*Bishop of Peoria*

## Fellows and Scholars

### University Fellows

- HAL TRUEMAN BEANS, Moscow, Idaho.....*Chemistry*  
B.S., University of Nebraska, 1899; and A.M., 1900.
- HAROLD MARTIN BOWMAN, Des Moines, Iowa.....*Administrative Law*  
LL.B., University of Michigan, 1899; B.L., 1900; A.M., 1901.
- WILLIAM KENNETH BOYD, Durham, N. C.....*European History*  
A.B., Trinity College (N. C.), 1897; and A.M., 1898; Columbia University,  
Scholar in History, 1900-1901.
- CHARLES THOMAS BRUES, Austin, Texas.....*Zoölogy*  
B.S., University of Texas, 1901; University of Texas, graduate student, 1901-  
1902.
- WILLIAM CAMPBELL, Kempsey, England.....*Metallurgy*  
B.S., Durham University, England, 1898; Royal School of Mines, Scholar, 1899-  
1902; Columbia University, graduate student, 1901-1902.
- WALTER ERNEST CLARK, New York City.....*Economics*  
A.B., Ohio Wesleyan University, 1896; and A.M., 1898; Columbian University,  
graduate student, 1899-1900, and 1901-1902; Scholar in Political Economy,  
1900-1901.
- MICHAEL MARKS DAVIS, JR., New York City.....*Sociology*  
A.B., Columbia College, 1900; Columbia University, graduate student, 1900-  
1902.
- PERCY HUGHES, New York City.....*Philosophy*  
A.B., Alfred University, 1889; Teachers College secondary diploma, 1897;  
Columbia University, graduate student, 1901-1902.
- STEPHEN AUGUSTUS HURLBUT, Madison, Wis.....*Greek*  
A.B., University of Wisconsin, 1901; University of Wisconsin, graduate student,  
1901-1902.
- DOUGLAS WILSON JOHNSON, Albuquerque, New Mexico.....*Geology*  
B.S., University of New Mexico, 1901; Columbia University, graduate student,  
1901-1902.
- WILLIAM ELLERY CHANNING LEONARD, Bonn-am-Rhein, Germany.....*English*  
A.B., Boston University, 1898; A.M., Harvard University, 1899; Student at  
University of Göttingen, 1900-1901; Student at University of Leipzig, 1901-1902.
- JAMES BURT MINER, Berlin, Wis.....*Psychology*  
B.S., Minnesota State University, 1897; LL.B., 1899; M.S., 1901; Columbia  
University, Scholar in Psychology, 1901-1902.
- FRED HOWARD MOFFIT, Easton, Pa.....*Geology*  
A.B., Williams College, 1895; A.M., Lafayette College, 1899.
- ROBERT BRENTON OLSEN, Walla Walla, Wash.....*Finance*  
A.B., Whitman College (Washington), 1900; A.M., Columbia University, 1901;  
Columbia University, graduate student, 1901-1902.
- SAMUEL PETER ORTH, Akron, O.....*Constitutional Law*  
B.S., Oberlin College, 1896.
- RAYMOND CARROLL OSBURN, Fargo, N. Dak.....*Zoölogy*  
B.S., Ohio State University, 1898; and M.S., 1900.
- FREDERICK CURRY OSTRANDER, Cornwall, N. Y.....*Romance Languages*  
A.B., Wesleyan University, 1893; Student at the Universities of Leipzig and  
Berlin, 1895-1897; Student at the University of Geneva, 1897.



- HENRY RUSSELL SPENCER, New York City.....*American History*  
A.B., Colby College, 1899; A.M., Columbia University, 1901; Columbia University, Scholar in History, 1901-1902.
- CHARLES ALFRED TURRELL, Arkadelphia, Ark.....*Germanic*  
B.S., University of Nebraska, 1896; A.M., University of Missouri, 1901; University of Nebraska, Fellow in French, 1896-1897; University of Missouri, Fellow in German, 1900-1901.

### Honorary Fellows

- ROYAL MEEKER, New York City.....*Finance*  
B.S., Iowa State College, 1898; Columbia University, Scholar in Political Economy, 1900-1901; and Fellow in Finance, 1901-1902.
- HENRY RAYMOND MUSSEY, Atkinson, Ill.....*Economics*  
A.B., Beloit College, 1900; Columbia University, Fellow in Economics, 1901-1902.

### International Fellow for Study in the United States

ALFRED FRANÇOIS MONOD, Paris, France.  
Licencié ès lettres, École normale Supérieure, Paris, 1898;  
Diploma de hautes études historiques, Université de Paris, 1900.

### International Fellow for Study in France

FREDERICK ERNEST FARRINGTON  
A.B., Harvard University, 1894; Columbia University, Fellow in Teachers College, 1901-1902; A.M., 1902.

#### Barnard Fellow

JOHN ALEXANDER MATHEWS, Ph.D.

#### Henry Drisler Fellow

HARWOOD HOADLEY, A.B.

#### John Tyndall Fellow

BERGEN DAVIS, A.M.

#### Mosenthal Fellow

FRANK EDWIN WARD

#### Schiff Fellow

GEORGE CHARLES SELDEN, A.B., LL.B.

#### Columbia Fellow in Architecture

ARTHUR WARE, B.S.

#### Perkins Fellow

CHARLES SUMNER KAISER, B.S.

#### Proudfit Fellow in Letters

JOHN ERSKINE, A.M.

#### George William Curtis Fellow

CHARLES AUSTIN BEARD, Ph.B.

#### Carl Schurz Fellow

JOHN LOUIS KIND, A.M.

#### Class of 1870 Fellow

LEWIS BUFFET CARLL, A.M.

## Alumni Association Fellows

(College of Physicians and Surgeons)

AUGUSTUS B. WADSWORTH, M.D., *Pathology*EDWARD ANTHONY SPITZKA, *Anatomy*HUGHES DAYTON, M.D., *Pathology*

## Annual Fellow in Sociology

JAMES BRONSON REYNOLDS, A.B.

## Annual Fellow in Anthropology

WILLIAM JONES, A.M.

## Annual Fellow in American History

SUSAN MYRA KINGSBURY, A.M.

## President's University Scholars

- ARTHUR C. NEISH, Kingston, Ontario.....*Chemistry*  
 A.B., Queens University, 1898; A.M., Columbia University, 1900.  
 ROLPH BARLOW PAGE, Toronto Junction, Ontario.....*History*  
 A.B., Toronto University, 1897; A.M., 1901.  
 EUGENE TAVENNER, New York City.....*Latin*  
 A.B., University of Nashville, 1899; A.B., Columbia University, 1901.  
 RAY WALTER THOMPSON, Palo Alto, Cal.....*Sociology*  
 A.B., Leland Stanford University, 1901.  
 NAOHIDE YATSU, Tokio, Japan.....*Zoology*  
 Rigakushi, Tokio Imperial University, 1900.

## University Scholars \*

- EUGENE EWALD AGGER, Bond Hill, O.....*Economics*  
 A.B., University of Cincinnati, 1901; A.M., 1902.  
 FREDERICK WILLIAM BAESLACK, Fitchburg, Mass.....*Zoology*  
 A.B., Amherst College, 1902.  
 LEON O. BEATTY, Lexington, Ky.....*Chemistry*  
 B.S., Kentucky University, 1899; M.S., Kentucky State College, 1900.  
 DINO BIGONGIARI, New York City.....*Latin*  
 A.B. (candidate), Columbia University, 1902.  
 PALMER COBB, Chapel Hill, N. C.....*Germanic Languages*  
 Ph.B., University of North Carolina, 1901.  
 ORROK COLLOQUE, New York City.....*Philosophy*  
 A.B., Trinity College (Conn.), 1899; A.M., New York University, 1901.  
 FREDERIC ANSON CUMMINGS, Spartansburg, S. C.....*English*  
 A.B., Wofford College, 1896; A.M., 1901.

\* The names of the following men, who held University Scholarships during 1901-1902, were inadvertently omitted from the Catalogue of that year:

- NORRIS CALEB BAILEY.....*Mathematics*  
 Wesleyan University, B.S., 1899.  
 DOUGLAS W. JOHNSON.....*Geology*  
 University of Mexico, B.S., 1901.  
 ROBERT BRENTON OLSEN.....*Economics*  
 Whitman College, A.B., 1900; Columbia University, A.M., 1901.  
 CHARLES WILLIAM STODDART.....*Chemistry*  
 Columbia University, A.B., 1900; A.M., 1901.  
 LEE WALDORF.....*Sociology*  
 Syracuse University, Ph.B., 1899.  
 CHARLES ZELENY.....*Zoology*  
 University of Minnesota, B.S., 1898; M.S., 1901.

- ALLEN BARBER EATON, Beloit, Wis.....*Sociology*  
Ph.B., Beloit College, 1899; M.A., Yale University, 1902.
- HAROLD CLARKE GODDARD, Amherst, Mass.....*English*  
A.B., Amherst, 1900.
- CLIFFORD GRAY, New York City.....*Mechanics*  
E.E. (candidate), Columbia University, 1902.
- EDWARD KIDDER GRAHAM, Chapel Hill, N. C.....*English*  
Ph.B., University of North Carolina, 1898.
- GEORGE CHRISTIAN OTTO HAAS, New York City.....*Indo-Iranian*  
A.B., Columbia University, 1902.
- PAUL LELAND HAWORTH, Marquette, Mich.....*History*  
A.B., Indiana University, 1899; A.M., 1901.
- HOMER DOLIVER HOUSE, Syracuse, N. Y.....*Botany*  
B.S., Syracuse University, 1902.
- GEORGE FREDERICK HUMMEL, Southold, L. I.....*English*  
A.B., Williams College, 1902.
- HARRY THEODORE JOHNSON, Dakota City, Neb.....*Political Economy*  
A.B., University of Nebraska, 1900.
- AUSTIN BAXTER KEEP, New York City.....*American History*  
A.B., Amherst, 1897; A.M., 1901.
- GEORGE LEAVENWORTH, Sainte Genevieve, Mo.....*Geology*  
A.B., University of Missouri, 1902.
- ALFRED HOMES LEWIS, Greenwich, Conn.....*Political Economy*  
A.B., Columbia University, 1902.
- HOWARD DANIEL MARSH, Los Angeles, Cal.....*Psychology*  
A.B., Ohio Wesleyan University, 1901; A.M., 1902.
- ALLEN HENRY NELSON, Baltimore, Md.....*Physics*  
A.B., Middlebury College, 1901.
- PAUL MARSHALL REA, Williamstown, Mass.....*Zoology*  
A.B., Williams College, 1899; A.M., 1901.
- HENRY KIRKLAND SMITH, New York City.....*Sociology*  
A.B., Columbia University, 1902.
- GUY EDWARD SNIDER, Columbia, Mo.....*Economics and Finance*  
B.L., University of Missouri, 1901; A.M. (candidate), 1902.
- EVERETT LYNN THORNDIKE, Lynn, Mass.....*European History*  
A.B., Wesleyan University, 1902.

### Curtis University Scholarships

- CLARA DE LISSA BERG, New York City.....*Comparative Literature*  
A.B., Columbia University, 1898.
- LOUISE HERMINE FUHLHAGE, St. Louis, Mo.....*Germanic Languages*  
A.B., Washington University, 1901.
- FLORENCE FRENCH HENRY, Cortland, New York.....*Geology*  
A.B., Cornell University, 1901; A.M. (candidate), Columbia University, 1902.

O'Dwyer Scholar

JOSEPH O'DWYER

Alonzo Clark Scholar

AUGUSTUS JEROME LARTIGAU, M.D.

John D. Jones Scholar

CHARLES ZELENY, M.S.

## BARNARD COLLEGE

## Trustees Competitive Entrance Scholar

ALICE DOROTHY BREWSTER

## Brooklyn Scholars

MABEL EMMA BROWNE  
 FAITH DE LA TOUR CHIPPERFIELD  
 SALLIE FAULKNER FLETCHER  
 MARY FREDERICKA HARRISON  
 FLORENCE EDDY HUBBARD  
 EMILIE JOSEPHINE HUTCHINSON  
 MAY AMERMAN JOHNSON  
 ANNA JOSEPHINE KENNEDY  
 DORA RUSSELL NEVINS  
 MADELEINE DAYRELL SKINNER

## Other Students on Brooklyn Scholarships

ETHEL BLANCHARD NEWTON  
 HELEN MILES ROGERS

## Ella Weed Scholar

CLARE MACLLELEN HOWARD

## Veltin School Scholar

KATHARINE FRANCES GOODYEAR

## Mrs. Donald McLean Scholar

LUCY FIDELIA SHERMAN

## Jennie B. Clarkson Scholar

ELSBETH KROEBER

## Lucille Pulitzer Scholar

HELEN LOUISE KING

## Emily James Smith Scholar

KATHARINE ELLEN POOLE

## Anna E. Barnard Scholar

CARRIE KAPLAN

## Brearley Scholar

MARGARET CECILIA BYRNE

## Eliza Taylor Chisholm Memorial Scholar

MARY GOULD GRAY

## Graham School Scholar

MABEL DENTON

## Jessie Kaufmann Scholar

ROSA FRIED

## TEACHERS COLLEGE

## Fellow

WINFIELD SCOTT THOMAS ..... *Education, Psychology*  
 Johns Hopkins University, A.B., 1889.

## Scholars

ISABELLA MCHUGH AUSTIN  
 B.L., University of Minnesota, 1895.  
 LIBERTA BROWN  
 Pacific University, A.B., 1899.  
 ELIZABETH HANKINSON BUNNELL  
 Mt. Holyoke College, A.B., 1894; Columbia University, A.M., 1902.  
 HERBERT CLIFFORD DORCAS  
 Iowa University, Ph.B., 1895.  
 RUTH ELIZABETH DOWLING  
 Teachers College, 1898.  
 CLARENCE CHERRINGTON HENSON  
 Ohio University, A.B., 1899.  
 ARCHIBALD SMITH KNIGHT  
 Colgate University, A.B., 1892; A.M., 1895.  
 FLORENCE MABEL MARSHALL  
 Boston University, A.B., 1899.

## Manual Training Scholars

JAMES EDWIN ADDICOTT  
 ARTHUR L. CHAMBERLAIN  
 LEONARD WILLIAM WAHLSTROM

## Southern Scholars

EDWARD CARY,  
 Tuskegee, Ala.  
 ELIZABETH AVERY COLTON,  
 Mt. Holyoke College, two years; teacher of English in the Presbyterian College  
 for Women, Charlotte, N. C.  
 MARY VENABLE COX,  
 State Normal Female College, Farmville, Va.; teacher in Fairfax Hall Seminary,  
 Winchester, Va.  
 JAMES J. DOSTER,  
 State Normal College, Troy, Ala., Ph.B., 1902; Principal of the Seventh and Eighth  
 Grades in the Model School, State Normal College, Troy, Ala.  
 ONORA EUNIS,  
 Teacher in Georgia Military College, Milledgeville, Ga.  
 ELIZABETH M. HALBY,  
 Teacher in Pedagogy in Ala. Girls' Industrial School, Montevallo, Ala.  
 MARGARET WINIFRED HALIBURTON,  
 Greensboro Methodist Female College, 1877; Principal of the Practice and Observa-  
 tion School of the North Carolina State Normal School.  
 CORNELIUS J. HEATWOLE,  
 Peabody Normal College, 1893; Principal of Oak Hill Academy, McGaheysville, Va.  
 ANNIE LINTON,  
 Teacher in the Normal School of Georgia.  
 BRUCE RYRUBN PAYNE,  
 Trinity College, A.B., 1896; A.M., 1902; teacher of Latin and Greek in the High  
 School, Durham, N. C.

- JULIA MARSHALL RAINES,  
Southern Female College, 1894; Le Vert Female College, Talbotton, Ga.; teacher  
in the public schools of Georgia.
- LILLIAN RULE,  
University of Tennessee, two years; teacher in the public schools of Knoxville,  
Tenn.
- MARION GARNET RYLAND,  
Woman's College, Richmond, Va.; A.B., A.M., 1891; Teachers College, Columbia  
University, one year; teacher in private schools and in the Woman's College,  
Richmond, Va.
- MARY VIOLA SCHUMAKER,  
State Normal School, Clarion, Pa., M.Pd., 1896; Lebanon, O., A.B., 1900;  
teacher in the Normal Department of Berea College.
- EDNA AMELIA SPEARS,  
Tuskegee, Ala.
- AMANDA STOLTZFUS,  
Peabody Normal College, 1886; Principal of West Knoxville High School.
- MARY GRACE VENABLE,  
Normal and Collegiate Institute, Asheville, N. C., 1899; Teachers College, Columbia  
University, one year; teacher in the graded schools of Asheville.
- MARY FRANCES WICKLIFFE,  
Due West Female College, 1882; teacher in the Winthrop Normal and Industrial  
College, Rock Hill, S. C.
- CHARLES WINTER WOOD,  
Tuskegee, Ala.

## Hoadley Scholars

- ELIZABETH MONTELL,  
Maryland State Normal School, Baltimore, 1895.
- CAROLINE ELIZABETH KEIL.

## Low Scholars

- EUPHEMIA JANET HAYES,  
GAIL HARRISON.

## Charlotte Louisa Williams Scholars

- ANNA MONROE GILCHRIST,  
KATHERINE ANNE SILL.

## Pierrepont Scholar

- MINNIE LOUISE STEELE.

## Pond Scholar

- MARGARET ELLIOT MCKAY.

## Shackelford Scholar

- WILL HARRIS JOHNSON,  
Illinois Wesleyan University, A.B., 1893.

## Tileston Scholar

- CAROLINE FOOTE LESTER

## Awards of Prizes and Honors, 1902

### COLUMBIA COLLEGE

#### Honors

##### Highest General Honors

###### Class of 1902

CHARLES CHRISTIAN LIEB

EDWARD SCHUSTER

*Vanderbilt Scholar*

GEORGE CHRISTIAN OTTO HAAS

*Morgan Scholar*

LYMAN RHOADES, Jr.

BRUCE McLEAN FALCONER

JAMES HAROLD HERoy

###### Class of 1903

STANLEY MEYER ISAACS

NATHANIEL WARING BARNES

LEONARD MICHAEL WALLSTEIN

###### Class of 1904

CARLTON HUNTLEY HAYES

LEONARD FELIX FULD

ARTHUR S. GUTMAN

###### Class of 1905

ROBERT LE ROY

LEONARD FLAGGE OTTEN

##### General Honors

###### Class of 1902

JOHN PIERCE LANGS

*A. A. Low Scholar*

GILBERT OAKLEY WARD

ARCHIBALD SPIERS WINSLOW

ALLAN BEACH ARNOLD BRADLEY

RICHARD KELLY

ARTHUR GARFIELD HAYS

HENRY KIRKLAND SMITH

FLOYD RIDER WOOSTER

*Brooklyn Scholar*

HARRY GABRIEL COWEN

ALEXANDER GOLDENWEISER

BURKE PRITCHARD JENKINS

ALFRED STRATTON LAWRENCE

JOSEPH GARDNER HOPKINS

*Brooklyn Scholar*

WILLIAM MARSIGLIA NESBIT

ARMOUR CALDWELL

GEORGE HENRY DANTON

*Moffat Scholar*

THEODORE RAYMOND ST. JOHN

RALPH WHITNEY CAREY

CHARLES WHEELER IGLEHART

ROBERT BERESFORD HINCKS

JOSEPH WHITTLESEY SPENCER

STANLEY KIDDER WILSON

SPENCER WATERS

JOSEPH ELI ERON

KENNETH CRANE FAILE

SAMUEL PIERSON LOCKWOOD

HAROLD TUTHILL SPENCE

SIDNEY LEHMAN SPIEGELBERG

LOUIS VERNON LEDOUX

HORACE RICHMOND STURTEVANT

*Vanderbilt Scholar*

ERNEST GUNTON BUDINGTON

JARVIS POMEROY CARTER

JAMES BANCROFT

WARNER FOOTE GOOKIN

*Morgan Scholar*

WILLIAM MAJOR COLLINS

###### Class of 1903

HAROLD CHAFFEE MCCOLLOM

*Brooklyn Scholar*

JAMES GARFIELD MOSES

CLINTON GILBERT ABBOTT

*Alumni Competitive Scholar*

MURRAY HAROLD BASS

HENRY K. HEYMAN

FREDERICK LYMAN WELLS

SAMUEL ABRAHAM TELLYZ

*Brooklyn Scholar*

CHARLES WILLIAM KENNEDY

ALEXANDER OTTO BECHERT

*Hewitt Scholar*

CHAPMAN ROPES  
COLIN GARFIELD FINK  
MARTIN CHARLES ANSORGE  
ROBERT LIVINGSTON SCHUYLER  
DINO BIGONGIARI  
*Brooklyn Scholar*  
CAMILLE AUGUSTUS TOUSSAINT  
*Clark Scholar*  
RICHARD HARRY JOHNSTON  
LAWRASON RIGGS, Jr.  
WALTER SCOTT SPIEGELBERG  
HERBERT D. MANDELBAUM  
GERARD BERNARD WERNER  
LOUIS S. ODELL  
*Clark Scholar*  
KENNETH MILLER SIMPSON  
HERBERT SPENCER LOVEMAN  
GERALD STUART O'LAUGHLIN  
ROBERT SCHULMAN  
GEORGE FREDERICK BAMBACH  
WALTER FRANK  
RICHARD COMPTON HARRISON  
NICHOLAS AUGUST KOENIG  
*Cutting Scholar*  
ALFRED HOFFMAN  
RALPH LOUIS SHAINWALD, Jr.  
JOHN WARNER TAYLOR  
*Morgan Scholar*  
JOHN JAMES BAKERMAN  
HERBERT JOSEPH HAAS  
ARTHUR FREDERICK EGNER  
CHARLES LEROY HENDRICKSON  
BARENT LEFFERTS

### Class of 1904

HARRY ABELES  
ABRAHAM MOSES DAVIS  
OSCAR REMPEL HOUSTON  
*Alumni Competitive Scholar*  
CHARLES FRANCIS LAWSON  
*Brooklyn Scholar*  
RUDOLPH LUDWIG VON BERNUTH  
LOUIS BLISS GILLET  
JANVIER WHITTON LINDSAY  
DONALD CLIFFORD BRACE  
*Faculty Scholar*  
MAXWELL FRANCIS LAWTON  
*Brooklyn Scholar*  
GRANT KNAUFF

EMORY HILL  
JAMES LATIMER ROBINSON  
*Faculty Scholar*  
WALTER S. GOLDFRANK  
HARRY W. NEWBURGER  
PAUL GERHARD GRAVENHORST  
*Brooklyn Scholar*  
HERBERT HENRY HARRIS  
UDO JULIUS WILE  
IRVING OTTENBERG  
MAURICE J. MUNKER

### Class of 1905

EDWARD SAPIR  
*Alumni Competitive Scholar*  
HUGH PETERS TREAT  
*Alumni Association Scholar*  
JOSEPH JULIUS FRANK  
JOSEPH TOLCHINSKY  
*Brooklyn Scholar*  
JACOB ZEITLIN  
GORDON SAUL PHILIP KLEEBERG  
SAMUEL LLOYD BARRICK  
EDWARD GOLDWATER  
GUSTAVUS ADOLPHUS YOUNGER  
BENJAMIN MORRIS LEVY  
KAUFMAN RICHARD WALLACH  
GEORGE WASHINGTON TUCKER, Jr.  
*Stuart Scholar*  
BENJAMIN MARK KAYE  
EDWARD HESS  
CURTIS LUBLIN  
*Alumni Association Scholar*  
WILLIAM STUART MESSER  
*Hewitt Scholar*  
WILLIAM NEWELL  
WILLIAM BURNET BARROWS  
HAROLD WORTHINGTON WEBB  
WALTER L. ROTHSCHILD  
ROBERT HOLMES BRADLEY  
WILLIAM MONTAGUE GEER, Jr.  
WALTER WESLEY MOTT  
JAMES LAURENCE WALDRON  
*Brooklyn Scholar*  
EDWARD DAY THURSTON, Jr.  
IRVING SAMUEL JOSEPHS  
MARSHALL MALLORY DAY  
*Schermerhorn Scholar*  
DAVID ANDREW MCKENZIE

## DEPARTMENTAL HONORS

### Final Honors

*Comparative Literature*  
HENRY GABRIEL COWEN

*English*  
ARMOUR CALDWELL



*Philosophy*

ARTHUR GARFIELD HAYS  
JOSEPH GARDNER HOPKINS

Junior Honors

*German*

ALEXANDER OTTO BECHERT

*Classics*

ROBERT LIVINGSTON SCHUYLER

Sophomore Honors

*German*

HARRY ABELES  
LEONHARD FELIX FULD  
EDWARD SAPIR  
JACOB ZEITLIN

*French*

LEONHARD FELIX FULD

COMPETITIVE SCHOLARSHIPS, CLASS OF 1906

Alumni Competitive Scholar

G. T. HIRSCH

Harper Scholar

MAX KAHN

Brooklyn Scholars

W. L. CASWELL  
H. W. EASTMAN  
N. DICKLER

Alumni Association Prize

GEORGE HENRY DANTON

National Society of the Sons of the American Revolution Medal

RICHARD KELLY

Greek Seminary Prize

ALFRED STRATTON LAWRENCE

COLLEGE OF PHYSICIANS AND SURGEONS

Harsen Prizes for Proficiency at Examination

First Prize: CHARLES E. WEBSTER, Jr., A.B.

Second Prize: SEWARD ERDMAN, A.B.

Third Prize: HERMANN VON W. SCHULTE, A.B.

Examination Honors

ALWIN MAX PAPPENHEIMER, A.B.  
RALPH MUNSON BEACH  
WILLIAM TILLINGHAST BULL, Ph.B.  
JAMES FRANCIS RICE, A.B., A.M.  
AUSTEN FOX RIGGS, A.B.  
PHILIP BISSELL, A.B.  
HENRY WOODRUFF TITUS, A.B.

## Harsen Prizes for Clinical Reports

First Prize: JOSEPH FREDERICK SAPHIR

Second Prize: ISAAC SETH HIRSCH

Third Prize: EDWARD ANTHONY SPITZKA

## Alumni Association Prize

GEORGE ALFRED LAWRENCE, M.D., Ph.D.

## SCHOOL OF POLITICAL SCIENCE

## Bennett Prize

GEORGE CHEW ATKINS

## Prize Lectureship

GEORGE JAMES BAYLES, Ph.D.

## UNIVERSITY

H. C. Bunner Medal

LOUIS PHILLIPS

## DIRECTORY OF OFFICERS

B. = Barnard College. C. = Columbia College. Ea. = Earl Hall. E. = Engineering. F. = Fayerweather. H. = Havemeyer.	H. M. S. = Horace Mann School. L. = Library. P. & S. = College of Physicians and Surgeons S. = Schermerhorn.	So. = South Hall. Sp. S. = Speyer School. T. = Teachers College. U. = University. V. C. = Vanderbilt Clinic. W. = West.
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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Abbe, R. Clin. Lect. (5)		P. & S. 13	W. 50
Abbott, A. Tr.		H. M. S. 600	W. 125
Abbott, H. V. Instr.		T. 417	W. 114
Adler, F. Prof. (5)			123 E. 60
Aldrich, J. Clin. Asst. (12)		V. C. 164	W. 81
Alline, Anna L. Asst.		T. 402	W. 124
Arendt, M. Lect. (9)	Tu. Th. F. S. 1-3; M. W. 10.30-12	502 E.	1851 Seventh ave.
Anthony, Kate S. Tr.		H. M. S. 2337	Broadway
Armstrong, Katharine, Asst.		H. M. S. Whittier	Hall
Atwood, C. E. Clin. Asst. (11)		V. C. 10	W. 16
Ayer, J. C. Clin. Asst. (11)		V. C. 31	W. 36
Bahlsen, L. Lect. (9)		T. 354	Manhattan ave.
Bailey, F. R. Instr. (7)		P. & S. 1165	E. Jersey, Elizabeth, N. J.
Bailey, P. Instr. (7)		P. & S. 4	W. 50
Bair, J. H. Asst. (10)	Tu. Th. 10.30	512 S.	520 W. 123
Baker, C. M. Tr.		H. M. S. 417	W. 114
Baker, F. T. Prof. (2)	M. S. 10.30; W. 11.30	T. 323	Park Hill, Yonkers, N. Y.
Baker, G. H. Lib. Emer. (12)			294 Manhattan ave.
Baldwin, Elizabeth G. Lib. Teachers College		T. 316	469 Main, E. Orange, N. J.
Ball, A. B. Prof. (5)		P. & S. 42	W. 36
Banker, C. E. Asst. (10)		P. & S. 251	W. 127
Bargy, H. Tutor (8)	Th. 2.30	305 W.	Fort Washington Park
Barnum, Edith C. Tr.		H. M. S. 151	W. 105
Batchelder, Evelyn, Tr.		H. M. S. 415	W. 118
Batchelder, Mildred I. Tr.		H. M. S. 415	W. 118
Bayles, G. J. Prize Lect. (9)	Tu. F. 4.30- 5.30	405 L.	404 Main, Orange, N. J.
Behr, Elsa, Asst.		H. M. S. 869	President, Bklyn.
Benns, C. P. Instr. (6)		T. 125	18 Landscape ave., Yonkers, N. Y.
Berg, H. W. Instr. (7)		P. & S. 923	Madison ave.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Berkeley, Frances C. Asst. (10)	Th. 9.30-10.30	B. 136	417 W. 118
Bickham, W. S. Asst. Instr. (6)		P. & S.	922 Madison ave.
Bigelow, M. A. Instr.		T.	92 Morningside ave.
Biggs, G. P. Dem. (7)		P. & S.	133 W. 71
Biklé, C. E. Adj. Prof. (2)	M. W. 4.30	T. 211	417 W. 114
Black, A. Instr. (6)	Tu. Th. 10.30-11.30	507 E.	521 W. 150
Blake, J. A. Instr. (6)		P. & S.	601 Madison ave.
Boag, E. T. Asst. Registrar (xii)		P. & S.	3 Lenox ave., White Plains, N. Y.
Boas, F. Prof. (3)	Tu. 10.30; Th. 12.30	405 S.	123 W. 82
Bogert, M. T. Adj. Prof. (4)	M.-F. 2-4	408 H.	430 W. 154
Bojus, G. H. Instr. Gym.			24 Pearsall ave., Jersey City, N. J.
Botsford, G. W. Lect. (9)	M. Th. 3.30-4.30	320 U.	521 W. 123
Bovaird, D. Tutor (8)		P. & S.	126 W. 58
Bradley, W. L. Clin. Asst. (11)		V. C.	119 W. 75
Braun, W. A. Tutor (8)	M. W. F. 3.30	B. 113	473 Manhattan ave.
Braunlich, A. R. Clin. Asst. (11)		V. C.	68 W. 96
Brewer, G. E. Instr. (6)		P. & S.	38 W. 48
Brewster, W. T. Adj. Prof. (4)	Tu. Th. 11.30-12.30	B. 137	
	S. 10-10.30	507 F.	307 W. 93
Britton, N. L. Emer. Prof. (12)			N. Y. Botanical Garden
Broadhurst, Jean A. Asst. (10)	Th. F. 12.30	B. 213	
Brooks, Annie M. Asst.		H. M. S.	Whittier Hall
Brooks, F. E. Instr.		T.	465 W. 139
Brouner, W. B. Clin. Asst. (12)		V. C.	256 W. 12
Brown, Madeline, Tr.		H. M. S.	Whittier Hall
Browne, T. J. Tr.		H. M. S.	557 W. 124
Brugman, A. F. Clin. Asst. (12)		V. C.	201 W. 139
Brush, Mary C. Registrar, Teachers College (xiii)	M.-F. 9-1, 2.30-5; S. 9-12.30	T. 104	416 W. 118
Buck, A. H. Clin. Prof. (5)		P. & S.	48 W. 40
Buffington, R. E. Asst. (10)		P. & S.	228 W. 114
Bull, W. T. Prof. (1)		P. & S.	35 W. 35
Burchell, H. J. Tutor (8)	Absent on leave		
Burchenal, Elizabeth, Tr.		H. M. S.	246 E. 34
Burdick, F. M. Prof. (2)	W. F. 12.30-1	303 L.	633 W. 115
Burgess, J. W. Prof. and Dean Sch. of Pol. Sci. (1)	M.-Th. 3.30-5	404 L.	323 W. 57
Burks, J. D. Asst.		T.	527 W. 124
Burr, W. H. Prof. (2)	Tu. Th. 1.30	401 E.	151 W. 74
Butler, Eliza R. Tr.		H. M. S.	119 E. 30
Butler, N. M. Prest. and Prof. (1)	M. W. F. 11-12; 1.30-3.30	213 L.	119 E. 30
Cabot, J., Jr. Asst. (10)		210 F.	34 Clinton pl., Mt. Vernon, N. Y.
Calhoun, Mary E. Tr.		H. M. S.	245 W. 104
Calkins, G. N. Instr. (6)	Daily 10-12	604 S.	1 W. 81

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Canfield, G. F. Prof. (3)	Tu. Th. 4.30	302 L.	32 E. 33
Canfield, J. H. Librarian (xiii)	M.-F. 10-12.30	L.	Graham Court, 7th ave. and 116
Carey, Henrietta, Asst.		H. M. S.	362 W. 118
Carmalt, C. Asst. Dem. (7)		P. & S.	600 Madison ave.
Carpenter, G. R. Prof. (2)	Tu. Th. 1.30; S. 10.30	508 F.	137 W. 93
Carpenter, W. H. Prof. (1)	M. W. 2.30; Tu. Th. 1.30	316 U.	253 W. 100
Carr, M. L. Clin. Asst. (12)		V. C.	353 W. 57
Castle, E. H. Prof. (3)	Absent on leave	T.	
Cathcart, W. L. Adj. Prof. (3)	M.-F. 1.30-3	604 E.	Gwynedd, Pa.
Cattell, J. McK. Prof. (2)	Tu. Th. 2.30	413 S.	Garrison, N. Y.
Chambers, V. J. Tutor and Lect. (8)			
Chandler, C. F. Prof. (1)	Daily 10-4	303 H.	51 E. 54
Chandler, F. W. Lect. (9)	W. 3.30	511 F.	22 Orange, Bklyn.
Chittenden, A. S. Asst. (10)		P. & S.	
Chittenden, R. H. Dir. and Lect. (9)		P. & S.	New Haven, Conn.
Churchill, A. V. Prof. (3)	W. F. 12; S. 12.30	T. 427	438 W. 116
Claiborne, J. H. Instr. (6)		P. & S.	39 W. 36
Clark, J. B. Prof. (3)	M.-W. 2	204 W.	616 W. 113
Clark, J. B. Clin. Asst. (11)		V. C.	46 W. 48
Clark, J. E. Clin. Asst. (11)		V. C.	
Clark, L. P. Clin. Asst. (11)		V. C.	62 W. 58
Clarke, W. C. Asst. (10)		P. & S.	125 W. 58
Coburn, Bessie M. Tr.		H. M. S.	Whittier Hall
Coburn, E. B. Clin. Asst. (11)		V. C.	313 W. 57
Cochran, G. H. Clin. Asst.		V. C.	60 W. 50
Coddington, Elizabeth, Asst.		H. M. S.	Whittier Hall
Cohn, A. Prof. (2)	M. W. 12.30	309 W.	216 W. 94
Cole, F. N. Prof. (3)	W. 1-2	406 C.	
Coley, W. B. Clin. Lect. (5)		P. & S.	5 Park ave.
Coll, A. P. Clin. Asst. (11)		V. C.	157 Lexington ave.
Colles, Julia N. Asst. (10)	Tu. Th. 9.30	B. 240	1161 Amsterdam ave.
Collins, H. D. Asst. Dem. (7)		P. & S.	50 W. 55
Comstock, W. W. Asst. (9)	Daily 11.30	401 F.	3140 Broadway
Cook, F. R. Clin. Asst. (11)		V. C.	96 Park ave.
Cowen, W. Instr. (6)		P. & S.	35 E. 60
Cox, R., Jr. Clin. Asst. (11)		V. C.	547 Madison ave.
Cragin, E. B. Prof. (3)		P. & S.	10 W. 50
Crampton, H. E. Adj. Prof. (4)	Tu. Th. 11-12; 2.30-3.30	611 S.	
Cregier, A. M. Asst. (10)	Tu. Th. 2.30	604 E.	201 W. 122
Crocker, F. B. Prof. (2)	M. W. 10.30-12	503 E.	14 W. 45
Cunningham, R. H. Instr. (7)		P. & S.	200 W. 56
Curtis, C. C. Tutor (7)	Tu. Th. 10-12	502 S.	202 W. 119
Curtis, E. Emer. Prof. (12)			120 Broadway
Curtis, J. G. Prof. (1)		P. & S.	327 W. 58
Cushing, H. A. Lect. (9)	Tu. Th. 2.15	403 L.	930 West End ave.
Dade, C. T. Clin. Asst. (12)		V. C.	68 E. 56
Daniell, Lucetta, Directress Teachers College		T. 107	Whittier Hall

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Danton, G. H. Asst. (10)			19 Livingston ave, Lyndhurst, N. J.
Danziger, J. L. Asst. (10)	M. W. F. 10.30	505 H.	302 W. 114
Davis, F. Clin. Asst. (12)		V. C.	58 W. 47
Davis, W. H. Asst. (9)	Tu.-Th. 2.30	412 S.	507 W. 124
Davison, Ellen S. Lect. (9)	Tu. 2.30	B. 337	61 Livingstone, Bklyn.
Day, W. S. Tutor (8)	Tu. Th. 10.30	B. 240	551 West End ave.
Dayton, H. Clin. Asst. (11)		V. C.	126 W. 48
Dean, B. Adj. Prof. (3)	M. Tu. 2-3	605 S.	20 W. 82
Delafield, F. Emer. Prof. (12)			12 W. 32
Ditman, N. E. Asst. (10)		P. & S.	St. Luke's Hospital
Dodge, R. E. Prof. (3)	M.-Th. 10.30		
	M. 2		
	W. 2-2.30	T. 203	Lakeside Drive, Park Hill, Yonkers, N. Y.
Dow, E. L. Tutor (8)		P. & S.	49 W. 57
Dowd, C. N. Instr. (6)		P. & S.	135 W. 73
Draper, W. K. Instr. (5)		P. & S.	121 E. 36
* Dunn, Louise B. Tutor (8)	M. 11.30	B. 320	501 W. 120
Dunning, W. A. Prof. (2)	M. W. 12.30-1	323 U.	256 W. 57
Dutton, S. T. Prof. and Supt. T. C. Schools (4)	W. F. 9; 3-5	H. M. S.	930 West End ave.
Dwight, J., Jr. Clin. Asst. (11)		V. C.	2 E. 34
Earle, M. L. Prof. (4)	Tu. Th. 2.30	B. 209	462 W. 22
Eatman, D. Asst.		H. M. S.	457 W. 123
Edgerton, J. I. Clin. Asst. (11)		V. C.	36 W. 35
Egbert, J. C., Jr. Prof. (3)		310 C.	364 Webster ave., Jer- sey City, N. J.
Eklöf, O. R. Instr.		T.	3135 Broadway.
Eliot, E., Jr. Clin. Lect. and Dem. (5)		P. & S.	48 W. 36
Ellard, C. H. Asst. (10)	F. 1.30-2.30	516 H.	Great Neck, L. I.
Ellery, Frances T., Office Asst.		T.	106 Madison ave.
Emerson, H. Asst. Dem. (7)		P. & S.	260 W. 57
Erb, F. C. Sup. Lib.		L.	520 W. 123
Erb, F. W. Sup. Lib.		Loan Desk	520 W. 123
Ernst, C. A. Tutor (8)	M.-F. 9.30- 11.30; 1.30	418 H.	445 Manhattan ave.
Evans, E. M. Tutor (8)		P. & S.	38 W. 48
Evans, M. B. Tr.		H. M. S.	272 Manhattan ave.
Falk, M. S. Tutor (8)	Tu.-Th. 2.30-4.30	509 E.	63 E. 74
Farnsworth, C.H.Adj.Prof.(4)	M. 1.30; Th. 2.30	T. 118	1230 Amsterdam ave.
Farnsworth, Mrs. C. H., Head Whittier Hall			Whittier Hall
Farrand, L. Adj. Prof. (4)	M. W. 12.30	513 S.	412 W. 115
Findlay, W. Tutor (8)	M. W. F. 10; Tu. Th. 11.30	B. 309 S.	5 W. 125
Finlay, G. I. Asst. (10)		P. & S.	144 E. 38
Fischer, C. S. Clin. Asst. (11)			

\* Died December 18, 1902.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Fisher, G. F. Bursar (xii)	M.-F. 9-5; S. 9-12	108 L.	124 E. 24
Fiske, T. S. Prof. (3)	M. W. 11.30	401 C.	1690 Broadway
Fitz-Gerald, J. D., II. Tutor (8)	Tu. 2.30	408 W.	
Fleming, W. L. Lect. (9)	M. W. 9.30 Tu. Th. 1.30	B. 340 321 U.	533 Manhattan ave.
Flint, C. P. Asst. Dem. (7)		P. & S.	61 W. 48
Floyd, R. Asst. Dem. (7)		P. & S.	13 Central Park W.
Foote, E. M. Instr. (6)		P. & S.	67 W. 48
Forbes, C. Asst. (10)	Daily 9.30- 5.30	409 F.	33 W. 99
Forbes, C. S. Asst. (10)	M.-F. 9.30- 11.30	410 C.	133 E. 29
Fountain, C. R. Asst. (10)	Tu. 1.30	303 F.	
Fowler, S. W. Clin. Asst. (12)		V. C.	116 W. 103
Fox, G. H. Clin. Prof. (5)		P. & S.	18 E. 31
Freeborn, G. C. Instr. (5)		P. & S.	215 W. 70
French, Isabel C. Tutor		T.	606 W. 115
Frothingham, R. Instr. (6)		P. & S.	7 W. 39
Fuld, J. E. Clin. Asst. (11)		V. C.	169 E. 82
Furst, C. Sec. Teachers Col- lege (xiii)	Daily 9-1; 2-5	T. 106	21 Bruce ave., Yonkers, N. Y.
Gallaudet, B. B. Dem. and Instr. (7)		P. & S.	60 W. 50
Gardner, A. H. Clin. Asst. (11)		V. C.	939 Madison ave.
Garner, J. W. Lect. (9)	M. 3.30; Th. 11.30	321 U.	410 W. 115
Geromanos, H. W. Tutor (9)	M. W. F. 3-5	102 H.	361 W. 123
Gibney, V. P. Clin. Prof. (5)		P. & S.	16 Park ave.
Gibson, L. M. Clin. Asst. (11)		V. C.	157 W. 81
Giddings, F. H. Prof. (2)	Tu. 4.30-5; F. 2-2.30	403 L.	
Gies, W. J. Adj. Prof. (4)		P. & S.	142 W. 70
Gilbert, W. M. Chief Clerk	M.-F. 9-5; S. 9-12	213 L.	364 W. 121
Gildersleeve, Virginia C. Asst. (9)		B. 136	28 W. 48
Gill, Laura D. Dean, Barnard College (xii)	M. Tu. Th. 11; 2; F. 11	B.	425 West End ave.
Gilley, W. C. Clin. Asst. (12)		V. C.	59 Bank
Gillmore, Mary B. Tr.		H. M. S.	419 W. 118
Gilman, Grace C., Secretary, Whittier Hall			Whittier Hall
Goetze, F. A. Supt. of B. & G. (xii)	M.-S. 10	110 L.	606 W. 113
Goodell, G. A. Tutor (8)		P. & S.	
Goodhart, S. P. Clin. Asst. (11)		V. C.	131 E. 64
Goodnow, F. J. Prof. (1)	M. W. 3.30	407 L.	49 Riverside dr.
Gottheil, R. J. H. Prof. (1)		309 U.	
Grabau, A. W. Adj. Prof. (4)	M. Tu. Th. 10	101 S.	527 W. 124
Hackett, Irene A. Tr.		H. M. S.	430 W. 118
Hale, F. E. Asst. (10)	M. 10.30- 12.30	516 H.	Williamsbridge, Bronxwood Park

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Hale, H. E. Asst. Dem. (7)		P. & S.	200 W. 57
Hall, E. J., Tutor (8)	Daily 11.30-1.30		
Hall, Mrs. John, Tr.		206 H. Sp. S.	600 W. 114
Hallock, W. Prof. (2)	M. W. F.		510 W. 124
	12.30	409 F.	417 W. 118
Hamilton, C. M. Tutor (9)	Tu. Th. 11.30-12.30		
	12.30	507 F.	360 W. 123
Hamlin, A. D. F. Adj. Prof. (2)	W. 10.30; Th. 11.30	613 H.	1285 Columbus ave.
Harpham, Flora E. Computer (9)	M.-F. 9.30-4.30	602 F.	321 E. 116
Harriman, C. A. Instr. (5)		605 H.	
Harrington, T. H. Tutor (8)	M.-F. 9.30-4.30	605 E.	West Chester
Hart, T. S. Clin. Asst. (11)		V. C.	130 W. 59
Hartley, F. Prof. and Instr. (5)		P. & S.	52 W. 50
Hawk, P. B. Asst. (10)		P. & S.	346 W. 58
Hayden, J. R. Instr. (6)		P. & S.	107 W. 55
Hayes, A., Jr. Tutor (9)	M. 3.30-5.30; W. 2.30-4.30	305 L.	10 E. 43
Hazen, T. E. Asst. (10)	F. 9.30-11.30	504 S.	174 W. 87
Hendren, L. L. Asst. (10)			
Herrick, W. P. Clin. Asst. (11)		V. C.	30 W. 54
Hervey, W. A. Instr. (6)	M. F. 2.30; Tu. 12.30	315 U.	607 W. 138
Heuser, F. W. J. Asst. (10)	W. F. 10.30; Tu. 4.30	317 U.	154 Hewes, Bklyn.
Higgins, J. J. Clin. Asst. (11)		V. C.	141 W. 76
Hill, E. Y. Clin. Asst. (12)		V. C.	111 W. 71
Hills, W. F. Sec. Gym.			321 W. 116
Hinrichs, G. Conductor of Music (9)	Tu. 1.30	204 So.	569 E. 178
Hirst, Gertrude M. Asst. (10)		B. 337	32 W. 40
Hirth, F. Prof. (5)	Tu. 12.30	406 W.	501 W. 113
Hiss, P. H., Jr. Instr. (6)		P. & S.	28 N. Washington sq.
Hitchcock, Harriet A. Tr.		H. M. S.	430 W. 118
Hodenpyl, E. Instr. (5)		P. & S.	16 W. 52
Hodgson, J. H. P. Clin. Asst. (12)		V. C.	29 Washington sq.
Hofer, Marie R. Tr.		H. M. S.	Whittier Hall
Hofman, H. O. Lect. (9)			Massachusetts Inst. of Technology, Boston, Mass.
Holbrook, R. T. Asst.		T.	Overlook Terrace, Yonkers, N. Y.
Holden, W. A. Clin. Asst. (11)		V. C.	43 W. 48
Holroyd, C. Instr. Gym.			86 Lawrence
Holt, L. E. Prof. (4)		P. & S.	14 W. 55
Hornbostel, H. F. Lect. (9)		H.	205 W. 56
Hotchkiss, L. W. Instr. (6)		P. & S.	37 W. 48
Howe, H. M. Prof. (3)	Tu. Th. 3.30	102 H.	27 W. 73
Howland, A. C. Instr.		T.	527 W. 124
Howland, J. Clin. Asst.		V. C.	49 E. 53
Hubbard, S. D. Clin. Asst. (12)		V. C.	143 W. 103
Huber, F. Instr. (6)		P. & S.	209 E. 17



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Huber, J. Clin. Asst. (12)		V. C.	113 E. Broadway
Humphries, H. R. Clin. Asst. (11)		V. C.	179 W. 88
Hunt, E. L. Clin. Asst. (11)		V. C.	51 W. 55
Huntington, G. S. Prof. (2)		P. & S.	240 W. 76
Hurd, L. M. Clin. Asst. (11)		V. C.	19 E. 38
Hutton, F. R. Prof. and Dean, Schools of Applied Science (1)	Tu. Th. 10.30	308 H. T.	319 W. 107 Whittier Hall
Hyde, Mary B. Tutor			519 W. 149
Hyslop, J. H. Prof. (3)	Absent on leave		
Jackson, A. V. W. Prof. (2)	M. 10.20	306 U.	16 Highland pl., Yon- kers, N. Y.
Jackson, F. W. Instr. (6)		P. & S.	68 W. 55
Jackson, G. T. Instr. (6)		P. & S.	15 E. 29
Jackson, H. A. Asst. (10)	Daily 9.30- 12.30	411 H.	61 W. 104 19 E. 47
Jacobi, A. Emer. Prof. (12)			
Jacoby, H. Adj. Prof. (3)	M. W. 10.30- 12	608 F.	333 W. 76
Jaeger, C. H. Clin. Asst. (11)		V. C.	24 W. 59
James, W. B. Prof. (4)		P. & S.	17 W. 54
Jardine, J. Tr.		H. M. S.	254 W. 123
Jarman, G. W. Instr. (5)		P. & S.	54 W. 76
Jelliffe, S. E. Clin. Asst. (11)		V. C.	231 W. 71
Jessup, D. S. D. Asst. (9)		P. & S.	305 W. 80
Johnson, A. S. Tutor (8)	M. W. F. 2-4	206 W.	525 W. 123
Jones, A. L. Tutor (8)	W. F. 10.30; Tu. Th. 2.30	416 L.	1649 Amsterdam ave.
Jordan, D. Tutor (8)	W. 11.30	301 W.	315 W. 94
Joüet, C. H. Tutor (8)	Tu.-Th. 2- 2.30	505 H.	Roselle, N. J.
Julien, A. A. Curator (10)	M.-F. 11-1	303 S.	505 W. 124
Kaps, J. D. Law Librarian	Daily 10-1	305 L.	931 Amsterdam ave.
Kasner, E. Tutor (8)	Tu. Th. 10.30	B. 309	121 E. 114
Keener, W. A. Prof. (2)		305 L.	441 Park ave.
Keller, Eleanor, Lect. (9)	M. 2.30	B. 435	13 Livingston place
Kellicott, W. E. Tutor (8)	M. W. F. 2.30	B. 403	600 W. 125
Kellogg, G. S. Curator		T.	469 W. 152
Kelly, Myra, Tr.		Sp. S.	117 E. 59
Kemp, J. F. Prof. (2)	Tu. Th. 10.30	403 S.	211 W. 139
Kennedy, A. D. Tr.		H. M. S.	415 W. 118
Kennedy, J. M. Clin. Asst. (11)		V. C.	168 W. 97
Kenyon, J. H. Clin. Asst. (11)		V. C.	47 W. 44
Keppel, F. P. Sec. (xii)	M.-F. 10- 12.30; 2-4; S. 10-12	213 L.	239 E. 17
Keppler, E. A. C. Asst. (9)	M. W. F. 10.30	310 U.	28 W. 70
Keyser, C. J. Instr. (6)	M. W. F. 11.30	407 C.	510 W. 124
Kinne, Helen, Prof. (3)	Absent on leave		
Kinnicutt, F. P. Prof. (5)		P. & S.	39 E. 35
Kirchwey, Clara B. Asst.		T.	605 W. 113
Kirchwey, G. W. Prof. and Dean, School of Law (2)	M. W. 12.30-1; Tu. Th. 11.30-1; F. 10.30-1	206 L.	605 W. 113

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Kirchwey, Mary F. Tr.		H. M. S.	605 W. 113
Kliene, R. J. H. Asst. (10)	M. 5.30	406 W.	12 Leland ave., New Rochelle, N. Y.
Knapp, C. Adj. Prof. (4)	M. F. 10.30	B. 111	1773 Sedgwick ave.
Knapp, H. Emer. Prof. (12)			26 W. 40
Knox, Mary F. Registrar, Barnard College (xiii)	M.-F. 9-5; S. 9-12	B.	216 W. 102
Krapp, G. P. Tutor (and Instr. T.) (8)	M. Th. 10.30	507 F.	417 W. 114
Kress, M. K. Curator and Lect. (10)		610 H.	
Krystall, B. E. Clin. Asst. (11)		V. C.	53 E. 86
Kurtz, E. L. Instr. (7)	M. W. F. 9.30	405 E.	414 W. 118
La Petra, L. E. Instr. (7)		P. & S.	58 W. 58
Lambert, A. V. Asst. Dem. (7)		P. & S.	2 E. 37
Larkin, J. H. Instr. and Cu- rator (7)		P. & S.	498 W. 130
Lartigau, A. J. Instr. (7)		P. & S.	Roosevelt Hospital
Lathrop, Susan A. Tr.		H. M. S.	245 W. 104
Laudy, L. H. Tutor (7)	Daily 9.30-5	313 H.	15 W. 65
Leaming, E. Instr. (5)		P. & S.	117 W. 84
Lee, F. S. Adj. Prof. and Dem. (3)		P. & S.	64 Park ave.
Lefferts, G. M. Clin. Prof. (5)		P. & S.	212 Madison ave.
Leshure, J. Clin. Asst. (11)		V. C.	153 Convent ave.
Lewis, E. M. Lect. (9)	S. 11.30	505 F.	507 So. 7th ave., Mt. Vernon, N. Y.
Lewis, Mary H. Tr.		H. M. S.	430 W. 118
Lewis, R., Jr. Instr. (6)		P. & S.	48 W. 40
Liggett, Mrs. N. W. Bursar, Barnard College (xii)	M.-F. 10-4.30; S. 9.30-1	B.	
Ling, G. H. Tutor (8)	M. W. F. 11.30-12	408 C.	242 W. 135
Lloyd, F. E. Adj. Prof. (3)	M. 1.30-2; Tu. W. 11.30-12	T. 304	272 Manhattan ave.
Lobenstine, R. W. Instr. (7)		P. & S.	Sloane Mat. Hosp.
Locke, Emily P. Sec. H. M. S.		H. M. S.	233 W. 106
Lockwood, G. R. Instr. (5)		P. & S.	18 E. 52
Lodge, G. Prof. (4)	M. W. 2.30; Th. 11-12	T. 228	1161 Amsterdam ave.
Loiseaux, L. A. Instr. (6)	Th. 2.30	303 W.	412 W. 115
Lord, H. G. Prof. (4)	M. 10.30 W. F. 10.30	B. 335	
Lovell, E. B. Adj. Prof. (3)	M.-F. 10.30	416 L.	618 W. 113
Lucke, C. E. Asst. (10)	M. W. 9-12	508 E.	235 W. 102
		304 E.	Marble Hill, Kings- bridge
Luquer, L. M. Instr. (6)	M. 2.30; Tu. 3.30	306 S.	321 W. 80
McBurney, C. Prof. (5)		P. & S.	28 W. 37
McClelland, J. F. Lect. (9)	Daily 9.30-5	405 E.	
McConnell, R. H. Clin. Asst.		V. C.	42 W. 97
McCord, J. S. Asst. (10)		106 S.	170 St. John's pl., Bklyn.
McCosh, A. J. Clin. Lect. (5)		P. & S.	16 E. 54

NAME	OFFICE HOURS	OFFICE	RESIDENCE
McCoy, J. J. Clin. Asst. (11)		V. C.	139 W. 97
McCracken, J. C. Sec. of Earl Hall (xiii)		Ea.	Earl Hall
McCrea, N. G. Adj. Prof. (4)	M. W. F. 10.30	309 C.	417 W. 118
McGinnis, E. L'H. Instr. (9)		P. & S.	202 W. 86
McGregor, J. H. Tutor (8)	M.-Th. 10-12	610 S.	507 W. 124
McKenzie, E. T. Clin. Asst.		V. C.	408 W. 58
McLane, J. W. Emer. Prof. and Dean, School of Medicine (12)		P. & S.	51 W. 38
McMurry, F. M. Prof. (3)	M. W. F. 3.30	T. 313	527 W. 124
McRae, Frances E. Tr.		H. M. S.	81 Morningside ave.
McWhood, L. B. Tutor (8)	F. 2.30	206 So.	511 W. 112
MacDowell, E. A. Prof. (3)	Absent on leave		
MacHale, F. S. Clin. Asst. (12)		V. C.	317 E. 87
MacLay, J. Adj. Prof. (4)	Tu. Th. 11.30	404 C.	312 Summer ave., New- ark, N. J.
MacVannel, J. A. Instr.	M. W. 2-3	T. 314	2441 Seventh ave.
Mallett, E. P. Clin. Asst. (11)		V. C.	171 W. 71
Mallett, G. H. Clin. Asst. (11)		V. C.	171 W. 71
Maltby, Margaret E. Instr. (6)	Tu. Th. 11	B. 438	567 W. 113
Manson, L. S. Clin. Asst. (11)		V. C.	2000 Madison ave.
March, Maud, Instr.		T.	Whittier Hall
Markoe, F. H. Prof. (5)		P. & S.	15 E. 49
Marshall, Florence M. Tr.		H. M. S.	419 W. 118
Martin, W. Instr. (6)		P. & S.	68 E. 56
Matthews, B. Prof. (2)	Tu. Th. 1-1.30	502 F.	681 West End ave.
May, C. H. Instr. (6)		P. & S.	698 Madison ave.
Mayer, R. E. Instr. (5)	M.-F. 9.30- 12.30; 2- 4.30	602 E.	
Meeker, H. E. Clin. Asst. (11)		V. C.	195 Lenox ave.
Mehan, Mrs. Caroline E. Instr.		T.	Carnegie Studios, 7th ave. and 57th
Menut, Eugenie, Tr.		H. M. S.	560 Park ave.
Meyer, Anna E. H. Sec. of Bar- nard College (xii)	M.-F. 9-5; S. 9-12	B.	Park Hill, Yonkers, N. Y.
Meyers, R. A. Sec. Com. on Employment for Students	M.-F. 9-5; S. 9-12	213 L.	38 Bleecker
Michaelis, A. Clin. Asst. (12)		V. C.	63 E. 110
Miller, E. H. Adj. Prof. (4)	Tu.-F. 10- 10.30	509 H.	312 Manhattan ave.
Miller, J. A. Clin. Asst. (11)		V. C.	550 Park ave.
Miller, S. O. Tutor (8)	M.-F. 2.30- 4.30	603 E.	West Nyack, N. Y.
Mitchell, H. B. Tutor (8)	Tu. Th. 11.30- 12	402 C.	Linden Hill, Flushing, N. Y.
Mitchell, S. A. Tutor (8)	M. W. F. 10.30	606 F.	314 W. 113
Monroe, P. Prof. (3)	Tu. Th. 2.30; S. 9.30	T. 314	35 Caryl ave., Yonkers, N. Y.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Monte, L. G. Instr.		T.	430 W. 118
Moore, J. B. Prof. (2)	M. W. F. 9	411 L.	
Moore, H. L. Adj. Prof. (4)	Tu. Th. 11.30	202 W.	501 W. 120
Morgan, J. L. R. Adj. Prof. (4)	M.-F. 2.30	409 H.	
Morrison, H. H. Asst. Supt.		110 L.	701 St. Nicholas ave.
Moses, A. J. Prof. (2)	M. 11.30; Tu. Th. 10.30	307 S.	
Munroe, H. S. Prof. (1)	M.-Th. 11.30	409 E.	501 W. 120
Muzzey, Annie L. Librarian H. M. S.		H. M. S.	Whittier Hall
Nash, Williametta O. Asst.		H. M. S.	Whittier Hall
Nelson, C. A. Head Reference Librarian	Daily 9-5.30	Reading Room L.	510 W. 143
Nitze, W. A. Tutor (8)	M. 2.30	306 W.	235 W. 102
Noble, Helen G. Asst.		T.	432 Hoboken ave., Jer- sey City, N. J.
Norrie, V. H. Instr. (5)		P. & S.	21 W. 37
Norris, C. Asst. (10)		P. & S.	105 W. 54
Norsworthy, Naomi, Tutor.		T.	234 W. 122
Oastler, F. R. Clin. Asst. (11)		V. C.	449 Park ave.
Odell, G. C. D. Adj. Prof. (4)	Tu. W. 10.30	505 F.	44 W. 44
O'Grady, Caroline G. Instr.		T.	416 W. 118
Olcott, G. N. Lect. (9)	Tu. Th. 11.30	308 C.	438 W. 116
Opitz, R. B. Asst. Dem. (7)		P. & S.	62 W. 66
Ordronaux, J. Emer. Prof. (12)			30 Broad
Osborn, H. F. Prof. (2)	M. afternoons	608 S.	850 Madison ave.
Osgood, H. L. Prof. (2)		320 U.	526 W. 150
Page, C. H. Lect. (9)	Th. 2.30	305 W.	100th and Riverside dr.
Parker, H. C. Instr. (7)	M.-F. 9.30- 4.30; S. 9.30-12.30	201 F.	21 Fort Greene pl., Bklyn.
Parsons, Belle R. Tr.		H. M. S.	Whittier Hall
Parsons, Mrs. Elsie C. Lect. (9)		B.	112 E. 35
Parsons, F. A. Tr.		H. M. S.	430 W. 118
Partridge, W. T. Lect. (9)		601 H.	58 W. 57
Patterson, H. S. Clin. Asst. (11)		V. C.	51 W. 58
Peabody, G. L. Prof. (1)		P. & S.	57 W. 38
Peabody, Mary G. Tr.		H. M. S.	Whittier Hall
Peck, C. H. Asst. Instr. (6)		P. & S.	37 W. 48
Peck, H. T. Prof. (1)	Th. 2.30	301 C.	37 South, Stamford, Ct.
Peele, R. Adj. Prof. (2)	M. W. F. 9.30	408 E.	351 W. 114
Pegram, G. B. Tutor (8)	M.-F. 9.30- 4.30; S. 9.30- 12.30	201 F.	
Pellew, C. E. Adj. Prof. (3)	Tu. Th. 11.30-1	414 H.	51 E. 54
Pelton, H. H. Clin. Asst. (11)		V. C.	66 E. 77
Pemberton, R. Clin. Asst. (11)		V. C.	200 W. 88
Peniston, Caroline L. Asst.		T.	85 Lexington ave.
Perry, E. D. Prof. and Dean, Sch. of Philos. (2)	M. W. 2-3	304 C.	542 W. 114

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Peters, W. H. G. Asst. Bursar (xii)		P. & S.	383 First st., Bklyn.
Peterson, F. Clin. Lect. and Instr. (5)		P. & S.	4 W. 50
Pfister, J. C. Instr. (6)	M. W. F. 10.30	614 F.	240 Sixth ave. (Roseville), Newark, N. J.
Pollard, D. H. Asst. (9)	M.-F. 9.30-12.30	409 C.	Winnipauk, Conn.
Pool, E. H. Asst. Dem. (7)		P. & S.	57 W. 45
Poore, C. T. Clin. Lect. (5)		P. & S.	43 W. 53
Potter, N. B. Tutor (8)		P. & S.	9 W. 35
Pratt, Isabelle L. Sec. to Dean, Teachers College		T. 103	221 W. 104
Pratt, Marion R. Sec. to Supt. H. M. S.		H. M. S.	221 W. 104
Pratt, Winona M. Tr.		H. M. S.	417 W. 118
Prescott, Harriet B. Sup. Lib.		L.	17 Livingston pl.
Prettyman, V. Prin. of H.M.S.	M. Tu. Th. F. 9.15-10.30	H. M. S.	Prospect Terrace, Park Hill, Yonkers, N. Y.
Price, T. R. Prof. (1)	M.-Th. 2.30	509 F.	2025 Broadway
Prince, J. D. Prof. (4)	Tu. Th. 11.30-12	308 U.	15 Lexington ave.
Proben, C. I. Clin. Asst. (11)		V. C.	136 E. 70
Prudden, T. M. Prof. (2)		P. & S.	160 W. 59
Pupin, M. I. Prof. (2)		203 E.	
Rand, Edith, Tr.		H. M. S.	223 W. 106
Rea, Matilda G. Asst.		T.	30 W. 25
Redfield, H. S. Prof. (4)	M. Tu. Th. 2.30	414 L.	567 W. 113
Rees, J. K. Prof. (1)	M. W. F. 10.30	610 F.	1 W. 72
Remy, A. F. J. Tutor (8)	Tu. Th. 11.30	311 U.	620 St. Nicholas ave.
Reynolds, W. S. Clin. Asst. (12)		V. C.	54 W. 94
Richards, A. N. Tutor (8)		P. & S.	346 W. 57
Richards, C. R. Prof. (3)	M. F. 3.30; W. 11.30	T. 122	501 W. 120
Richards, Mrs. Ellen H. Lect.		T.	Inst. of Technology, Boston, Mass.
Richards, H. M. Instr. (6)	M.-F. 10.30-12.30	B. 316	307 W. 93
Richardson, W. C. Tr.		H. M. S.	604 W. 115
Ringwalt, R. C. Lect. (9)		507 F.	32 E. 28
Robbins, Ida E. Tr.		H. M. S.	417 W. 118
Robinson, J. H. Prof. (3)	Tu. 9.30; W. F. 3.30	323 U.	
Robinson, W. S. Instr.		T.	202 W. 74
Rogers, A. F. Tutor (8)	Tu. Th. F. 12.30	308 S.	3289 Broadway
Rogers, J. D. Lect. (9)	Tu. Th. 2.30-3	306 C.	296 Manhattan ave.
Rogers, Lillian E. Tr.		H. M. S.	419 W. 118
Rogers, Mary, Instr.		T.	101 W. 90
Rouillion, L. Instr.		T.	56 W. 33
Runyan, Mary D. Prof. (3)	M.-Th. 11.30	T. 112	511 W. 112
Russell, J. E. Prof. and Dean Teachers College (3)	M.-F. 11.30-1	T.	"The Emerson," Amsterdam ave. and 121st

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Sachs, J. Prof. (5)		T.	149 W. 81
Sage, Elizabeth, Asst.		T.	2333 Broadway
Salmon, Lucy M. Lect. (9)		T.	Vassar College, Poughkeepsie, N. Y.
Savage, W. L. Dir. Gym. (xiii)	M.-Th. 9.30-1; Tu. F. 4.45-5.45	U.	P. O. Box 238, Mar- maroneck, N. Y.
Schenck, Aletta V. W. Asst.		T.	165 Lenox ave.
Schmitt, A. E. Asst. (10)		P. & S.	310 E. 57
Schüssler, Amy, Tr.		Sp. S.	558 W. 182
Seager, H. R. Adj. Prof. (4)	Tu. Th. 3-4	205 W.	567 W. 113
Seibert, Jeannette R. Asst.		T.	Whittier Hall
Seikel, G. R. Instr. Gym.			316 W. 115
Seligman, E. R. A. Prof. (1)	M. W. 2.30	409 L.	324 W. 86
Sever, G. F. Adj. Prof. (4)	M. W. F. 9.30-11.30	504 E.	349 Central Park W.
Sheldon, W. H. Asst. (10)	M. W. F. 1.30	416 L.	360 W. 123
Shepherd, W. R. Instr. (7)	Absent on leave		
Sherman, F. D. Adj. Prof. (2)	F. 10.30	603 H.	202 W. 103
Sherman, H. C. Instr. (7)	M.-Th. 4-5	509 H.	1161 Amsterdam ave.
Shimer, H. W. Asst. (10)	Tu. F. 9.30-11.30	101 S.	418 W. 124
Shotwell, J. T. Lect. (9)	M. 11.30-12; 3.40-4.30	B. 340 322 U.	201 W. 101
Shrady, A. M. Instr. (7)		P. & S.	1 W. 68
Silver, L. M. Clin. Asst. (12)		V. C.	103 W. 72
Simkhovitch, V. G. Sup. Lib.	M.-F. 10-4	307 L.	26 Jones
Simons, Mrs. Mary L. Supt.		Sloane Maternity Hospital	
Simpson, W. K. Instr. (6)		P. & S.	952 Lexington ave.
Sieffel, C. C. Instr. (6)	M. Tu. F. 9.30	T. 32	554 W. 125
Sloane, W. M. Prof. (3)	F. 11.30	319 U.	109 E. 69
Smith, D. E. Prof. (4)	M. W. Th. 10.30	T. 212	430 W. 116
Smith, E. R. Ref. Librarian, Avery Library	Daily 1-6, 7-11 P.M.	A. L. V. C.	118 W. 109 351 W. 51
Smith, F. C. Clin. Asst. (11)		408 L.	635 W. 115
Smith, M. Prof. (1)	W. F. 2.30		
Snelling, G. T. Instr. (5)	Daily 10.30-11	602 H.	56 W. 33
Solley, F. P. Tutor (8)		P. & S.	33 W. 53
Sondern, P. F. Clin. Asst. (11)		V. C.	19 E. 38
Sour, B. Clin. Asst. (12)		V. C.	68 W. 97
Speranza, C. L. Prof. (3)	Tu. Th. 3.30	304 W.	1185 Lexington ave.
Spingarn, J. E. Tutor (8)	M. W. F. 12-1	401 W.	118 E. 58
Sprague, S. E. Clin. Asst. (11)		V. C.	246 W. 74
Starr, M. A. Prof. (2)		P. & S.	5 W. 54
Stein, J. B. Clin. Asst. (12)		V. C.	30 W. 15
Stevens, Ellen Y. Tr.		H. M. S.	102 Waverly pl.
Stiefel, B. W. Clin. Asst. (11)		V. C.	127 E. 73
Stone, H. F. Lect. (9)	Tu. Th. 11.30	302 L.	930 West End ave.
Stone, W. S. Instr. (5)		P. & S.	1730 Broadway
Stoughton, B. Instr. (7)	M. W. F. 3-5	102 H.	293 Central Park W.
Strong, C. A. Lect. (9)	S. 12.30	409 S.	Lakewood, N. J.
Strong, O. S. Tutor and Asst. (7)	Tu. Th. 11	613 S.	507 W. 124

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Sumner, A. E. Instr. (6)		P. & S.	122 W. 58
Sutherland, Louise C. Instr.		T.	1230 Amsterdam ave.
Swift, G. M. Instr. (6)		P. & S.	20 W. 55
Taylor, A. S. Asst. Instr. (6)		P. & S.	152 W. 57
Taylor, R. W. Clin. Prof. (5)		P. & S.	40 W. 21
Terrell, A. G. Clin. Asst. (12)		V. C.	406 W. 57
Terry, C. T. Prof. (4)	M. Tu. Th. F. 4.15-4.30; 5.30-6		
Thacher, J. S. Dem. (7)		414 L. P. & S.	23 E. 77 33 W. 39
Thomas, C. Prof. (3)	Tu. Th. 10.30	312 U.	Riverside dr. and 115th 600 Madison ave.
Thomas, T. G. Emer. Prof. (12)			
Thorndike, E. L. Adj. Prof. (4)	M. W. F. 4.30	T. 324	530 W. 123
Thurber, S. W. Clin. Asst. (11)		V. C.	251 W. 73
Todd, H. A. Prof. (2)	M. W. 4.30	302 W.	824 West End ave.
Tolman, G. Asst. (10)	Tu. 10.30	303 F.	39 W. 117
Tombo, R., Sr. Tutor (7)	Tu. Th. 11.30	B. 113	273 W. 138
Tombo, R., Jr. Instr. and Registrar (7)	M.-F. 9.30- 11.30; 2.30	109 L.	619 W. 138
Townsend, F. Tutor (8)	Daily 9.30- 11.30	505 E.	Union Club
Trent, W. P. Prof. (4)	M. W. 11-11.30 Tu. Th. 12.30-1	B. 137	
Trenwith, W. D. Clin. Asst. (12)		502 F. V. C.	279 W. 71 140 W. 94
Trowbridge, C. C. Tutor (7)	M. W. F. S. 10.30-12	401 F.	Riverside dr. and 116th
Tucker, S. A. Tutor (7)	M.-F. 9.30-5	421 H.	81 E. 56
Tufts, F. L. Tutor (7)	M. W. F. 10.30	409 F.	
Tuttle, G. M. Prof. (1)		P. & S.	38 W. 52
Tuttle, Mary L. Tutor		T.	417 W. 118
Tyson, H. H. Clin. Asst. (11)		V. C.	47 W. 51
Uhlig, W. C. Asst. (10)	Tu.-F. 2-5	P. & S.	244 Halsted, E. Orange, N. J.
Underhill, Laura B. Tr.		H. M. S.	419 W. 118
Underwood, L. M. Prof. (3)	M. F. 10.30- 12.30	506 S.	N. Y. Botanical Garden, Bronx Park
Upton, C. Tr.		H. M. S.	415 W. 118
Upton, E. C. Asst. (10)	Tu. Th. 1.30	505 F.	314 W. 113
Van Amringe, J. H. Prof. and Dean of Columbia College (1)	W. F. 1.30	205 C.	56 W. 51
Van Arsdale, May B. Asst.		T.	557 W. 123
Van De Water, G. R. Chaplain (xiii)	M.-F. 9-9.30	Ea.	7 W. 122
Van Kirk, Anne D. Prin. Training School, S. M. H.			
Van Wagenen, C. D. Clin. Asst. (11)		Sloane V. C.	Maternity Hospital 39 W. 19
Van Zandt, Margaret, Sup. Lib.		L.	415 W. 118
Voorhees, J. D. Instr. (7)	M.-F. 4-5	P. & S.	150 W. 59
Vosburgh, A. S. Asst. Dem. (7)		P. & S.	40 W. 88
Vulté, H. T. Instr. (6)	M.-F. 2-4.30	P. & S.	33 Park ave., New Rochelle, N. Y.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Wadsworth, A. B. Asst. (9)		P. & S.	112 W. 55
Wallace, C. Clin. Asst. (11)		V. C.	391 West End ave.
Ware, W. R. Prof. (1)	M. Th. 10.30	607 H.	419 W. 118
Warren, C. P. Tutor (7)	Tu. 9.30-11.30	602 H.	48 W. 9
Waters, R. L. Asst. (10)	Daily 10-4	308 E.	453 W. 143
Watterson, Ada M. Tutor		T.	153 W. 87
Weick, C. W. Instr. (6)		T. 119	554 W. 125
Weir, R. F. Prof. (2)		P. & S.	11 E. 54
Weiser, Lucy H. Tr.		H. M. S.	417 W. 118
Welles, Kathrine, Tr.		H. M. S.	419 W. 118
Wells, J. S. C. Instr. (5)	Tu. Th. 2-3	513 H.	252 W. 91
Welzmler, L. R. Clin. Asst. (11)		V. C.	347 W. 57
Weston, C. P. Asst. (10)	M. W. F. 12.30	603 F.	314 W. 113
Wheeler, J. R. Prof. (3)	M. W.	304 C.	433 W. 117
Wheelock, Elizabeth M. Tr.		H. M. S.	430 W. 118
White, F. J. Asst. (10)		501 E.	53 St. John's pl., Bklyn.
Whiting, C. A. Tutor (8)		P. & S.	70 W. 47
Whiting, J. R. Clin. Asst. (12)		V. C.	66 W. 46
Whitman, R. Instr. (5)		P. & S.	283 Lexington ave.
Whittemore, Laura B. Tr.		H. M. S.	8 Morningside ave.
Williams, C. M. Clin. Asst. (11)		V. C.	515 Madison ave.
Williams, L. R. Asst. (10)		P. & S.	
Williams, R. H. Tr.		H. M. S.	36 Morningside ave.
Wilson, E. B. Prof. (2)	Tu.-F. 11-12	609 S.	305 W. 78
Winchester, Miriam C. Tr.		H. M. S.	Hotel Endicott, 81st and Columbus ave.
Wohlfarth, Julia, Prin. El.			
Dept. H. M. S.		H. M. S.	246 W. 108
Wood, F. C. Instr. (6)		P. & S.	205 W. 57
Wood, T. D. Prof. (4)	Daily 9-10; 4-5	T. 107	417 W. 118
Woodberry, G. E. Prof. (2)	W. 11.30	511 F.	
Woodbridge, F. J. E. Prof. (5)	M. Tu. Th.		
	3.30	420 L.	500 W. 121
Woodhull, J. F. Prof. (1)	M.-F. 10.30	T. 413	135 Caryl ave., Yonkers, N. Y.
Woodward, B. D. Prof. (4)	M. W. 12.30	B. 114	462 W. 22
Woodward, R. S. Prof. and Dean, Sch. of Pure Science (2)	M. W. F. 11.30	406 F.	408 W. 145
Woolman, Mrs. Mary S. Adj. Prof. (4)	W. 10.30; F. 2.30	T. 420 308 E.	21 W. 101
Woolson, I. H. Instr. (5)		V. C.	Manhattan State Hosp.
Wright, A. B. Clin. Asst. (11)			Blackwell's Island
Wyckoff, C. R., Jr. Asst. (10)	Tu. Th. 2.30	308 E.	185 Penn, Bklyn.
Yohannan, A. Lect. (9)		308 U.	
Young, C. H. Adj. Prof. (4)	M. 2-2.30	305 C.	312 W. 88



## DIRECTORY OF STUDENTS

The italic letter following the name indicates the school in which the student is primarily registered—as follows :

<i>c</i> College	<i>pl</i> School of Political Science
<i>l</i> School of Law	<i>s</i> Schools of Mines, Chemistry, Engineering, and Architecture
<i>m</i> School of Medicine	<i>b</i> Barnard College
<i>p</i> School of Pure Science	<i>t</i> Teachers College
<i>ph</i> School of Philosophy	

The numbers 1, 2, 3, and 4 preceding these letters indicate the class; sp, special student; gr, graduate student in the professional schools.

The names of women are printed in *italics*.

Aaron, A. <i>pl</i> 77 Quincy, Passaic, N. J.	Addicott, J. E. 4 <i>t</i> 2075 8th ave.
Abbott, C. G. 4 <i>c</i> 153 W. 73	Adey, M. H. 3 <i>b</i> 445 Lenox ave.
Abbott, F. 1 <i>s</i> 33 W. 44	Aery, W. A. 3 <i>c</i> Elmhurst, N. Y.
Abbott, F. B. gr <i>t</i> 309 W. 128	Agate, F. J. 3 <i>c</i> 627 W. 115
Abbott, G. 1 <i>l</i> "The Osborne," 57 and 7th ave. Bklyn.	Agenbroad, A. A. 1 <i>l</i> 519 W. 123
Abbott, J. W. 3 <i>t</i> 431 William, E. Orange, N. J.	Ager, J. W. 4 <i>s</i> 296 Carlton ave., Bklyn.
Abe, K. sp <i>l</i> 16 Washington ter.	Agger, E. E. <i>pl</i> 523 W. 124
Abel, S. 4 <i>m</i> 71 E. 105	Agnew, J. C. 2 <i>s</i> 354 W. 120
Abeles, H. 3 <i>c</i> 326 W. 113	Agostini, V. D. 2 <i>m</i> 110 E. 52
Abendroth, W. P. 3 <i>s</i> 549 W. 152	Aicher, F. A. 2 <i>s</i> 358 W. 123
Abraham, B. 1 <i>l</i> 242 E. 108	Akin, A. J., II. 2 <i>c</i> 64 W. 49
Abraham, H. 4 <i>s</i> 13 W. 89	Albert, H. W. 1 <i>c</i> 724 Ocean ave. Jersey City, N. J.
Abrams, E. M. <i>t</i> 449 Greene ave., Bklyn.	Aleinikoff, A. S. 1 <i>l</i> 1533 Madison ave.
Abrams, S. P. D. 1 <i>m</i> Lawrence, L. I.	Alexander, G. M. 2 <i>m</i> 132 W. 111
Abramowitz, H. <i>ph</i> 154 W. 100	Alexander, L. B. 3 <i>s</i> 940 St. Nicholas ave.
Aburatani, J. <i>pl</i> 700 Park ave.	Allen, A. H. 3 <i>m</i> 129 W. 61
Ache, P. S. 3 <i>l</i> 362 W. 123	Allen, B. G. 3 <i>m</i> 157 W. 66
Acker, A. J. 3 <i>s</i> 337½ W. 55	Allen, C. 2 <i>s</i> 252 W. 121
Adams, A. E. 4 <i>c</i> 324 W. 115	Allen, D. G. 4 <i>m</i> 65 Central Park West
Adams, E. S. 2 <i>t</i> 526 W. 123	Allen, E. B. 1 <i>t</i> 416 W. 118
Adams, H. C. 2 <i>l</i> 363 W. 122	Allen, T. H. 4 <i>c</i> 409 W. 145
Adams, J. B. 3 <i>b</i> 416 W. 118	Allen, W. F. 4 <i>c</i> 601 W. 148
Adams, P. A. 4 <i>m</i> 437 W. 59	Allers, C. L. 2 <i>m</i> Tompkinsville, S. I.
Adams, R. A. 3 <i>m</i> 16 St. Nicholas pl.	Allis, L. V. 4 <i>t</i> 1230 Amsterdam ave.
Adams, W. H. 2 <i>l</i> 129 W. 85	Alsberg, E. <i>ph</i> 40 W. 94
Addoms, J. A. 4 <i>b</i> 1260 Amsterdam ave.	Alsberg, H. G. 3 <i>l</i> 40 W. 94

- Alsberg, J. sp s 40 W. 94  
 Alsop, G. F. 4 b 96 Remsen,  
 Bklyn.  
 Alterman, L. B. 1 l 135 8th ave.  
 Amberg, J. L. 1 c 140 W. 88  
 Ames, E. H. 4 m 37 Clinton  
 ave., Jersey City, N. J.  
 Amsel, C. S. 2 l 628 Cortlandt  
 ave.  
 Anderson, G. 2 s 413 W. 117  
 Anderson, H. 1 l 49 E. 21  
 Anderson, H. B. 2 b 114 Remsen,  
 Astoria, L. I.  
 Anderson, H. B. 2 l 419 W. 118  
 Andrews, G. ph 1230 Amsterdam ave.  
 Andrews, J. H. 3 s 527 W. 124  
 Andrews, W. B. 4 m 352 W. 55  
 Angell, H. D. 3 l 526 W. 123  
 Anson, M. C. 4 c 102 W. 132  
 Anspacher, H. 2 c 77 E. 116  
 Anspacher, L. K. ph 77 E. 116  
 Apgar, A. C. 4 t 1230 Amsterdam ave.  
 Aplington, H. W. 4 s 143 W. 85  
 Appell, E. M. 3 b 30 N. 10th  
 ave., Mt. Vernon, N. Y.  
 Applegate, C. M. 3 b 1230 Amsterdam ave.  
 Applegate, E. T. R., Jr. 1 m 117 W. 63  
 Archibald, E. F. 1 s 317 E. 85  
 Argall, G. O. 3 s 358 W. 123  
 Armand, L. J. 4 t 550 W. 149  
 Armington, H. H. 3 m 328 W. 56  
 Arms, C. L. sp b 56 W. 96  
 Armstrong, E. B. 2 m Paterson, N. J.  
 Arnaud, L. G. 3 b 672 Tenth, Bklyn.  
 Arnold, J. W. 2 c 121 W. 74  
 Arnold, S. N. 3 s 64 W. 97  
 Arnson, L. sp s 173 E. 95  
 Aronson, L. S. 3 m 71 Clinton  
 Asch, D. 4 c 114 W. 64  
 Ashforth, G. 1 c 391 West End ave.  
 Ashley, E. 2 s 747 St. Nicholas  
 ave.  
 Ashley, R. E. 3 s 1867 7th ave.  
 Ashmead, D. C. 1 s 22 Hamilton  
 ave., Yonkers, N. Y.  
 Assenheimer, E. M. 3 m 323 E. 51  
 Astle, C. 1 m 322 W. 55  
 Atkins, A. W. 2 s 354 W. 120  
 Atkinson, J. H. ph 210 W. 123  
 Atwater, C. O. 4 t 14 Manhattan st.  
 Auchincloss, H. 2 m 24 E. 48  
 Auerbach, H. S. 1 s 102 W. 76  
 Auerbach, J. 2 m 65 Broome  
 Auerbach, M. 4 t 73 E. 90  
 Aulls, L. D. 1 l 526 W. 123  
 Austin, H. S. 1 l 301 W. 55  
 Austin, I. gr t 1230 Amsterdam ave.  
 Avery, O. T. 3 m 162 2d ave.  
 Ayers, M. S. ph  
 Babcock, H. H. 2 l 19 W. 64  
 Bach, F. A. 2 c 55 E. 80  
 Bach, M. J. 1 l 11 E. 92  
 Back, L. 1 t 1230 Amsterdam ave.  
 Backus, A. H. pl Drew Theo-  
 logical Seminary, Madison, N. J.  
 Bacon, D. R. 3 s 430 W. 118  
 Bacon, M. K. 3 b 100 W. 76  
 Baechler, G. ph 134 W. 29  
 Baeslack, F. W. p 5 W. 125  
 Bailey, C. H. 4 t 227 W. 122  
 Bailey, H. W. 4 t 1230 Amsterdam ave.  
 Baker, F. C. pl 129 W. 123  
 Baker, F. R. 4 m 360 W. 58  
 Bakerman, J. J. 4 c 713 E. 5  
 Bakst, J. 1 m 42 Pike  
 Baldwin, A. ph 417 W. 118  
 Baldwin, A. P. gr t 531 W. 124  
 Baldwin, F. T. ph 417 W. 118  
 Baldwin, J. P. 1 l 527 W. 123  
 Baldwin, S. L. ph Gregory ave., W. Orange, N. J.  
 Baldwin, W. S. 3 s 310 W. 115  
 Ball, C. E. A. 2 m 153 Valley,  
 S. Orange, N. J.  
 Ball, M. E. ph 85 Ayerigg ave.,  
 Passaic, N. J.  
 Ball, M. E. P. 4 b 606 W. 113  
 Ballenberg, M. 1 l 240 E. 48  
 Ballou, F. W. 3 t 162 W. 123  
 Bama, L. 4 m 108 E. 87  
 Bambach, G. F. 4 c 66 W. 53  
 Bamberger, A. C. J. 4 b Hotel Majestic  
 Bamberger, S. M. 3 s 92 Morningside ave.  
 Bamman, F. G. 2 l 527 W. 123  
 Bandler, C. G. 3 m 165 Lenox ave.  
 Bangs, H. McC. 1 c 161 W. 73  
 Banister, R. L. 3 m 342 W. 58  
 Banks, H. M. 1 l Port Chester, N. Y.  
 Banning, H. 3 c 17 E. 128  
 Banta, E. M. ph 144 St. James pl., Bklyn.  
 Barber, C. L. ph 191 Lefferts pl.,  
 Bklyn.

Barber, W. C. 2 l  
Port Richmond, S. I.  
Barker, P. M. 2 m 303 W. 71  
Barker, S. R. 3 b Irvington, N. Y.  
Barnaby, J. C. 1 s 505 W. 112  
Barnes, H. 4 m 365 W. 55  
Barnes, N. W. 4 c 85 Lander,  
Newburgh, N. Y.  
Barnes, R. L. 2 s 85 Willowdale  
ave., Montclair, N. J.  
Barnert, C. 3 m 284 Ellison,  
Paterson, N. J.  
Barnert, M. 3 s 284 Ellison,  
Paterson, N. J.  
Baron, S. J. 2 l 8 Mitchell pl.  
Barr, E. E. pl 227 W. 122  
Barrett, F. J. 2 m 1167 Dean,  
Bklyn.  
Barrett, R. C. 1 l 430 W. 118  
Barrick, S. L. 2 c 20 Elizabeth,  
Jersey City, N. J.  
Barron, H. A. 4 t 25 Dominick  
Barrows, S. 1 m 99 Heywood  
ave., Orange, N. J.  
Barrows, W. B. 2 c 20 Central  
ave., Tompkinsville, S. I.  
Barshell, F. B. 2 s 22 W. 114  
Barter, B. B. sp t  
1230 Amsterdam ave.  
Bartholomae, H. J. 3 l  
129 W. 70  
Bartholomew, R. B. 4 c  
640 Madison ave.  
Bartlett, F. H. 2 m 123 W. 96  
Bartlett, L. S. 2 m 120 W. 84  
Barton, J. P. 1 m  
53 St. Nicholas ave.  
Bartow, C. W. 2 m  
569 Park ave.  
Bartrum, W. C. 3 m 342 W. 58  
Bass, B. pl 419 W. 118  
Bass, M. H. 4 c 57 W. 91  
Bassett, E. W. 2 b 26 W. 120  
Bassett, H. K. sp c 148 W. 64  
Bassett, J., Jr. 3 c 122 W. 126  
Batchelder, M. G. pl 38 King  
Batchelor, C. B. 2 c 318 W. 57  
Bates, G. 1 s 509 W. 124  
Bates, K. C. 1 l 361 W. 123  
Bates, W. S. 3 c 445 Post rd.,  
Port Chester, N. Y.  
Bauchelle, J. F. 4 s 604 W. 114  
Bauer, C. H. sp s 430 W. 118  
Bauer, H. O. A. 1 l  
Piermont, N. Y.  
Bauernebl, A. J., Jr. 2 s  
430 18 ave., Newark, N. J.  
Baum, H. 2 s 88 First

Baum, P. 1 c 88 First  
Baumgard, H. G. 2 m  
125 Manhattan ave.  
Baumgarten, C. 4 s 312 E. 70  
Bawden, W. T. 4 t 216 W. 108  
Baxter, H. 1 s 415 W. 118  
Bayles, W. H. 1 m 278 Main,  
New Rochelle, N. Y.  
Baylis, R. S. 1 s 567 St. Mark's  
ave., Bklyn.  
Bayne, S. F. gr t 407 W. 145  
Beach, F. E. sp b  
1230 Amsterdam ave.  
Beale, P. 1 l 346 Manhattan ave.  
Beans, H. T. p 324 W. 115  
Beard, C. A. pl 432 W. 124  
Beard, M. R. pl 432 W. 124  
Beaton, A. A. 3 t 438 W. 116  
Beattie, W. H. 4 m 421 W. 57  
Beatty, E. L. 1 l 366 W. 116  
Becher, M. M. sp l 142 E. 115  
Bechert, A. O. 4 c 119 Jefferson,  
Bklyn.  
Beck, E. C. A. 4 m 37 E. 31  
Beckwith, F. A. pl 46 E. 21  
Beekman, F. L. 1 b 141 W. 104  
Beekman, F. sp c 55 5th ave.  
Beekman, H. R. 4 c 35 W. 17  
Beers, W. H. 4 s 414 W. 118  
Beha, J. L. 3 c 65 W. 95  
Behrens, B. S. 1 l 272 Rivington  
Behrens, S. M. t 1848 Boston  
road.  
Behrman, S. 2 s 120 E. 3  
Beifeld, M. M. 3 b 302 W. 138  
Belden, M. Van Z. 2 l  
410 West End ave.  
Bell, A. McD., 3 m 144 W. 65  
Bell, F. E. 1 b 243 Madison ave.,  
Flushing, L. I.  
Bell, W. B. 3 l  
478 Central Park West  
Beller, W. C. 4 t 55 E. 112  
Benedict, F. N. 2 s 509 W. 124  
Benham, W. L. 2 s 415 W. 117  
Benjamin, H. I. 3 s  
Hotel Majestic  
Bennett, G. G. 2 b 323 State,  
Hackensack, N. J.  
Bennett, H. B. pl 509 W. 124  
Bennett, J. A. 2 m 143 W. 76  
Benson, C. 2 s 227 W. 116  
Bentley, B. M. 3 t  
1230 Amsterdam ave.  
Benton, E. 4 t 523 W. 123  
Benton, N. K. 1 c 150 N. 15,  
E. Orange, N. J.  
Bentz, G. H. 4 m 309 E. 86

- Berg, C. de L. *ph* 52 W. 83  
 Berg, W. N. 3 *s* 331 E. 88  
 Berger, M. F. 3 *t* 58 W. 129  
 Berlinicke, H. R. 2 *l* 122 W. 137  
 Bernard, R. W. *pl* 137 W. 129  
 Bernays, J. *sp b* 121 W. 119  
 Bernheim, J. B. 1 *c* 321 W. 139  
 Bernheim, S. 1 *l* 123 E. 92  
 Bernheimer, E. J. *pl* 124 W. 70  
 Bernstein, L. *sp m* 139 Eldridge  
 Bernstein, L. P. 2 *m* 132 Broome  
 Bernstein, M. 1 *m* 66 St. Mark's pl.  
 Bertholf, K. I. 4 *t* 201 W. 85  
 Betowski, P. E. 1 *m* 127 W. 61  
 Beyer, A. H., Jr. 4 *s* 510 Warwick, Bklyn.  
 Bickelhaupt, B. 1 *m* 630 E. 162  
 Biddle, A. G. 2 *c* 624 Montgom-  
 ery, Jersey City, N. J.  
 Biegeleisen, J. Z. 3 *m* 146 Stanton  
 Bigelow, L. S. *ph* 1 West 72  
 Biggin, F. I. 2 *b* 533 W. 145  
 Biglow, L. C. 3 *s* 742 St. Nicholas ave.  
 Bigongiari, D. *ph* 131 Sands,  
 Bklyn.  
 Biklé, J. S. 4 *c* 417 W. 114  
 Binion, S. A. *ph* 41 S. Washington sq.  
 Birdsall, C. A. 1 *m* 197 Ege ave.,  
 Jersey City, N. J.  
 Birmingham, W. G. 1 *l* 669 E. 140  
 Bishop, L. 3 *t* 1230 Amsterdam ave.  
 Black, F. *sp t* 457 W. 123  
 Black, M. F. 3 *m* 140 W. 67  
 Black, R. E. 2 *m* 438 W. 57  
 Blackburn, L. P. 1 *b* 324 W. 58  
 Blackford, G. R. 4 *t* 412 W. 115  
 Blagden, C. 1 *m* 18 Gramercy Pk.  
 Blake, C. *sp t* 524 W. 123  
 Blake, C. H., Jr. 3 *c* Englewood,  
 N. J.  
 Blake, E. L. 1 *b* West New Brighton, S. I.  
 Blancard, W. 3 *m* 328 E. 87  
 Blanchard, E. 3 *t* 527 W. 124  
 Blanford, M. E. 4 *t* 520 W. 123  
 Blank, M. I. 4 *c* 1525 Madison ave.  
 Blauner, S. 3 *m* 134 Rivington  
 Bleyer, A. 2 *s* 449 E. 57  
 Blickensderfer, C. 2 *s* 536 W. 114  
 Bliss, A. A. *sp t* 1230 Amsterdam ave.  
 Bliss, D. C. *gr t* Kearny, N. J.  
 Bloch, H. 2 *l* 334 E. 87  
 Bloch, S. F. 1 *c* 538 W. 149  
 Block, M. 4 *m* 1192 Park ave.  
 Block, S. J. *p* 86 E. 111  
 Bloom, D. M. 4 *m* 155 Plane,  
 Newark, N. J.  
 Bloomfield, A. J. 3 *c* 221 W. 122  
 Blumenstiel, A. 1 *c* 108 E. 79  
 Blumenthal, H. A. 2 *l* 27 E. 95  
 Blumgart, L. 4 *m* 266 So. Orange  
 ave., Newark, N. J.  
 Blunt, A. M. 3 *t* 1230 Amsterdam ave.  
 Bniép, A. *p* 276 W. 38  
 Boardman, C. I. 3 *l* 227 W. 122  
 Bode, W. A. 2 *s* 1855 7th ave.  
 Bodenheimer, M. 4 *m* 336 E. 50  
 Bodler, J. W. W. *gr t* 393 Lenox ave.  
 Boehm, L. C. 3 *l* 503 W. 124  
 Boekshitzky, B. J. 2 *m* 262 E. Bway.  
 Boese, W. H. 3 *m* 702 E. 158  
 Bogue, M. G. 3 *l* 116th and Riverside Drive  
 Bogue, P. D. 1 *c* 836 Union, Bklyn.  
 Boice, H. W. 1 *m* 28 E. 23  
 Boisse, J. 1 *c* 137 E. 73  
 Boisse, P. S. 1 *s* 137 E. 73  
 Bolles, M. M. *gr s* 432 W. 124  
 Bolton, A. T. 1 *s* Boston rd. and 175th  
 Bonchelle, J. F. 3 *s* 604 W. 114  
 Bondy, J. 3 *m* 515 E. 86  
 Bonime, E. 2 *m* 271 Madison  
 Bonsall, V. F. M. *ph* 160 W. 95  
 Bonyne, H. A., Jr. 2 *m* 931  
 Washington, Hoboken, N. J.  
 Bookman, M. R. 1 *m* 1248 Fulton ave.  
 Booraem, R. R. 1 *l* 16 Fulton,  
 Newark, N. J.  
 Boorman, E. S. S. 2 *b* Fort Washington  
 Booss, F. E. 2 *s* 261 W. 138  
 Bopp, W. F. 3 *m* 39 Seventh  
 Borden, J. H. 4 *m* 52 W. 130  
 Bordwell, W. P. 2 *l* 225 W. 106  
 Borgwald, C. *sp c* 223 N. 6th  
 ave., Mt. Vernon, N. Y.  
 Borneman, C. J. 1 *l* 346 High,  
 Newark, N. J.  
 Borsody, A. 3 *s* 325 E. 82  
 Borsody, L. 1 *s* 325 E. 82  
 Bosch, E. 1 *c* 229 W. 42  
 Boss, A. M. 2 *b* 161 E. 82  
 Bostwick, S. W. 4 *t* 44 1st pl.,  
 Bklyn.

Boswell, J. A. 1 m  
 Bottomley, W. L. 2 s 254 W. 132  
 Boulger, M. R. 3 b  
     53 St. Nicholas ave.  
 Bourke, J. F. 2 m 144 W. 12  
 Boward, L. L. 2 b 661 E. 141  
 Bovey, J. M., Jr. 3 c 606 W. 115  
 Bowden, H. E. S. sp b 332 Princeton ave., Jersey City, N. J.  
 Bowman, L. pl 180 W. 105  
 Bowie, W. B. 1 s 171 Madison, Bklyn.  
 Bowles, H. T. 3 s 249 W. 107  
 Bowman, H. M. pl 414 W. 118  
 Bowman, J. F. 3 m 130 Grove, Montclair, N. J.  
 Boyd, C. S. 2 m 362 Willis ave.  
 Boyd, V. T. 1 b 40 Perry  
 Boyd, W. B. 2 m 40 Perry  
 Boyd, W. K. pl 509 W. 124  
 Boyer, M. 3 t  
     1230 Amsterdam ave.  
 Boyesen, B. 3 c  
     116th and Riverside Dr.  
 Boylan, A. A. pl 186 W. 135  
 Boyle, E. M. 3 l 334 W. 19  
 Boynton, W. H. 2 s 159 W. 130  
 Brace, D. C. 3 c 131 W. 103  
 Brackett, A. S. sp b 604 W. 115  
 Brackett, M. M. p 604 W. 115  
 Bradford, J. D. 1 l 162 W. 123  
 Bradin, S. F. sp t 417 W. 118  
 Bradley, A. B. 4 s 538 W. 114  
 Bradley, A. B. A. 1 l 304 W. 83  
 Bradley, C. M. 2 l 134 W. 117  
 Bradley, G. R. 2 s 23 W. 68  
 Bradley, R. H. 2 c  
     187 Lenox ave.  
 Bradley, W. E. 2 s 538 W. 114  
 Brady, J. E. 2 l 503 W. 124  
 Brady, J. S. 2 m 245 W. 36  
 Brady, T. J., Jr. 2 s 42 W. 75  
 Brancato, P. 2 m 308 W. 44  
 Brand, A. 3 m 232 E. 7  
 Branower, W. 3 m 208 Rivington  
 Brasted, R. S. 2 l 310 W. 107  
 Braun, J. 2 m 101 Avenue D  
 Braunstein, R. 2 s 417 W. 118  
 Breed, R. H. 3 m 331 W. 55  
 Brennan, W. J. 4 c 2 W. 75  
 Brennglass, J. 4 m 1478 1st ave.  
 Bretsch, H. L. 3 t 500 W. 165  
 Brewster, A. D. 1 b  
     439 Manhattan ave.  
 Bridgman, A. T. 4 t 157 W. 123  
 Briggs, E. E. 3 t 507 W. 124  
 Briggs, Y. 3 c 1973 7th ave.  
 Bringham, H. S. 1 c 220 W. 121

Brill, A. 4 m 620 E. 5  
 Brinckerhoff, A. M. 4 t 6 W. 48  
 Brinckerhoff, H. C. 4 c  
     501 W. 120  
 Brine, F. J. 3 l  
     517 Manhattan ave.  
 Brittain, A. A. 2 c 544 W. 113  
 Britten, C. R. sp s 20 Monticello ave., Jersey City, N. J.  
 Broadhurst, J. 4 t 108 W. 73  
 Brooks, A. 1 l 26 W. 50  
 Brooks, A. M. gr t  
     1230 Amsterdam ave.  
 Brooks, J. L. gr t 541 W. 124  
 Brouse, E. W. 1 l 686 E. 138  
 Brown, A. E. 2 b 47 Albion pl., Port Richmond, S. I.  
 Brown, A. J. 4 m 36 E. 69  
 Brown, B. 2 s 358 W. 123  
 Brown, E. D. sp m 420 Pacific ave., Jersey City, N. J.  
 Brown, E. D. 2 l  
     14 Morningside ave.  
 Brown, F. C. 1 c 631 W. 148  
 Brown, F. E. 4 m 591 Hancock, Bklyn.  
 Brown, F. LeR. ph 41 E. 69  
 Brown, H. L. 1 l 42 W. 72  
 Brown, H. S. 3 s 111 W. 103  
 Brown, J. L. P. gr t 528 W. 123  
 Brown, K. sp t 150 W. 91  
 Brown, L. R. gr t  
     1230 Amsterdam ave.  
 Brown, M. E. 1 t  
     1230 Amsterdam ave.  
 Brown, R. M. 2 m 241 W. 75  
 Brown, S. sp s 131 W. 95  
 Browne, D. H. sp c 121 W. 91  
 Browne, M. E. 1 b 1539 Pacific, Bklyn.  
 Bruce, E. B. 2 l Rockledge, Yonkers, N. Y.  
 Bruce, G. ph 128 W. 11  
 Bruce, M. 1 c 410 Van Brunt, Bklyn.  
 Bruckman, R. H. 3 t  
     1230 Amsterdam ave.  
 Brues, C. T. p 70 Decatur, Bklyn.  
 Brundage, P. E. 2 m  
     1024 Hudson, Hoboken, N. J.  
 Bruner, E. T. 2 l 340 W. 85  
 Bruning, H. F. 2 m 318 W. 57  
 Bryant, M. D. 2 m 195 Lenox ave.  
 Bryant, W. S., Jr. 3 c 412 W. 115  
 Buchanan, J. sp c 512 E. 84  
 Bucher, H. 2 t 162 E. 61  
 Buchler, W. P. 3 l 126 W. 120  
 Buckhout, N. W. ph 114 W. 109

- Buckingham, E. 2 b 632 W. 148  
 Budell, A. E. 4 s Westfield, N. J.  
 Budington, E. G. 1 l 417 W. 118  
 Buell, T. R. 2 s 413 W. 117  
 Bugbee, H. G. 4 m 155 Madison ave.  
 Bühler, J. S. 2 l 415 W. 117  
 Bulkley, H. D. 3 c 128 Harrison,  
 E. Orange, N. J.  
 Bulkley, K. 1 c 531 Madison ave.  
 Bulley, G. W. 2 s 415 W. 118  
 Bullowa, J. G. M. 4 m 46 E. 66  
 Bullowa, R. J. M. 3 l 46 E. 66  
 Bunnell, E. H. gr t 520 W. 123  
 Burbidge, T. A. 3 s 111 W. 103  
 Burch, T. H., Jr. 2 s 106 W. 57  
 Burchard, A. T. gr t 1230 Amsterdam ave.  
 Burdette, R. S. 1 s Cliffside, N. J.  
 Burdick, C. G. 4 m 42 E. 35  
 Burfitt, L. R. S. 3 t 501 William,  
 E. Orange, N. J.  
 Burford, M. G. 4 m 83 So. 9,  
 Bklyn.  
 Burks, J. D. gr t 527 W. 124  
 Burnett, H. L., Jr. 2 c 7 E. 12  
 Burnham, A. C. 1 m 251 W. 92  
 Burnquist, J. A. A. 1 l 361 W. 116  
 Burns, G. 1 c 423 W. 117  
 Burr, E. T. S. 1 b 501 W. 120  
 Burritt, B. B. gr t 522 W. 123  
 Burritt, M. T. ph Bronxville, N. Y.  
 Burrow, F. W. 2 l 415 W. 118  
 Burrows, E. C. 1 m 138 Clinton, Elizabeth, N. J.  
 Burrows, W. F. 3 m Elizabeth, N. J.  
 Burtis, W. E. 3 s Rockaway rd.,  
 Jamaica, N. Y.  
 Burton, H. W. ph Woodside, Queens Co., N. Y.  
 Busch, E. 1 c 219 W. 42  
 Bushong, E. G. 3 b 1230 Amsterdam ave.  
 Busse, F. A. 4 s 269 W. 118  
 Butler, B. F. 4 c 19 W. 89  
 Butler, E. C. 1 m 61 E. 91  
 Butler, F. L. 3 t 41 Essex ave.,  
 Orange, N. J.  
 Butler, G. H., Jr. 4 c 964 5th ave.  
 Butler, H. A. 3 c 2 W. 94  
 Butler, L. C. 3 t 541 W. 124  
 Butterfield, W. H. 2 s 1272 Amsterdam ave.  
 Buttrick, P. A. sp c 499 Central  
 ave., E. Orange, N. J.
- Butts, E. 3 b 518 Hudson,  
 Hoboken, N. J.  
 Byrd, F. O. 3 m 69 Park ave.  
 Byrne, J. 3 t 15 W. 124  
 Byrne, M. C. 2 b 338 Decatur,  
 Bklyn.  
 Cabot, G. D. 4 s 34 Clinton pl.,  
 Mt. Vernon, N. Y.  
 Caetani, Don S. 4 s 1270 Amsterdam ave.  
 Cahen, E. J. 3 b 353 Central Park West  
 Cahn, A. G. 4 b 115 W. 131  
 Cahn, (Mrs. A. L.) ph 63d and Madison ave.  
 Calhoun, E. S. 2 b 201 W. 100  
 Callahan, G. J. 1 l 227 W. 116  
 Cameron, S. 2 b 239 W. 136  
 Camp, A. R. 3 s 311 W. 104  
 Campbell, C. L. 1 s 415 W. 117  
 Campbell, F. 3 b 409 W. Front,  
 Plainfield, N. J.  
 Campbell, H. G. ph 1293 Amsterdam ave.  
 Campbell, R. 3 s 606 W. 115  
 Campbell, S. 3 s 333 N. Broad,  
 Elizabeth, N. J.  
 Campbell, W. 527 W. 124  
 Cane, M. H. 3 l 62 E. 80  
 Canfield, D. F. ph Graham  
 Court, 116 and 7th ave.  
 Cannon, H. G. 1 s 519 W. 123  
 Cannon, J. R. 4 m Irvington, N. Y.  
 Cantino, E. 1 m 200 W. 79  
 Cantle, H. C. 4 m 155 W. 61  
 Canto, Y. H. 1 m 452 W. 23  
 Canton, A. G. 1 s 365 Manhattan ave.  
 Capen, O. B. ph 416 W. 118  
 Capito, G. B. 4 m 318 W. 57  
 Caples, E. J. 2 b 527 W. 124  
 Caponigri, J. F. 1 l 159 E. 74  
 Capron, H. S. pl 50 E. 70  
 Carbo, L. A. 3 s 224 W. 139  
 Cardozo, M. H., Jr. 2 l 45 E. 65  
 Carlebach, W. M. 2 s 136 W. 86  
 Carleton, R. A. W. 3 s Edgewater, Bergen Co., N. J.  
 Carll, L. A. ph Whitestone, L. I.  
 Carlsson, C. P. 3 c 211 W. 104  
 Caroline, H. 2 c 70 Forsyth  
 Carpenter, H. N. 1 s 505 W. 112  
 Carpenter, L. J. 2 b Port Chester, N. Y.  
 Carpenter, W. S. 3 c 505 W. 112

Carpentier, M. A. *ph.* 58 W. 96  
 Carrington, W. 3 *s* 310 W. 115  
 Carroll, A. 1 *s* 9 W. 38  
 Carroll, S. M. *ph* 416 W. 118  
 Carry, E. H. *t* 115 W. 32  
 Carss, E. gr *t* 537 W. 141  
 Carstensen, G. A. *ph* 252d and Riverdale ave.  
 Carter, A. E. 3 *s*  
 Carter, D. S. 1 *s* 130 E. 24  
 Carter, J. P. 1 *l* 130 E. 24  
 Carter, N. McL. 4 *m* 33 W. 82  
 Carter, R. W. 3 *m* 328 W. 56  
 Cary, R. G. sp *m* 263 W. 54  
 Casamajor, L. 4 *c* 372 Greene  
 ave., Bklyn.  
 Casper, J. 1 *m* 362 W. 55  
 Cassebeer, E. W. 1 *s* 205 W. 70  
 Caswell, W. L. 1 *c* 9 Arlington pl., Bklyn.  
 Cathcart, G. L. 2 *b* 1230 Amsterdam ave.  
 Catton, M. E. 3 *t* Cropsey and  
 23d aves., Bklyn.  
 Catron, J. W. 3 *s* 413 W. 117  
 Cauch, F. R. 3 *t* 2075 8th ave.  
 Cauch, L. A. sp *t* 2075 8th ave.  
 Cazin, A. 3 *t* 1108 Bloomfield,  
 Hoboken, N. J.  
 Chace, A. F. 4 *m* 318 W. 57  
 Chaffee, R. N. 2 *l* 457 W. 123  
 Chamberlain, A. H. 4 *t* 81 Morningside ave.  
 Chamberlain, A. R. 2 *m* 45 W. 32  
 Chamberlain, E. *ph* 33 E. 75  
 Chambers, C. 2 *l* 1869 7th ave.  
 Chambers, F. W. 1 *c* 315 W. 58  
 Chambers, M. D. 4 *t* 1230 Amsterdam ave.  
 Chandler, H. K. 3 *s* 38 E. 10  
 Chandor, V. L. *pl* 29 E. 61  
 Chapman, E. A. 1 *b* 3635 Boule-  
 vard, Jersey City, N. J.  
 Chapman, E. D. 1 *t* 37 Clinton  
 ave., Jamaica, L. I.  
 Chard, S. 1 *l* 417 W. 114  
 Chase, L. N. *ph* 139 W. 49  
 Chatfield, G. H. sp *c* 19 W. 106  
 Chatry, A. J. sp *t* 126 Greene ave.,  
 Bklyn.  
 Chedsey, M. C. 4 *t* Park Hill,  
 Yonkers, N. Y.  
 Cheesman, F. P. 4 *b* 171 W. 95  
 Cherry, M. J. 1 *s* 244 W. 71  
 Cherry, T. H. 3 *m* 237 W. 123  
 Chessmann, F. N. 3 *m* 31 W. 61  
 Chickering, E. C. *ph* 415 Fulton,  
 Jamaica, L. I.

Childs, J. H. 2 *m* 339 Totowa,  
 Paterson, N. J.  
 Chipperfield, F. de la T. 1 *b* 103 Hawthorne, Bklyn.  
 Church, E. C. 3 *s* 4 E. 130  
 Church, J. A., Jr. 1 *s* 697 West End ave.  
 Church, M. E. 1 *t* 213 High,  
 Passaic, N. J.  
 Churchill, L. T. 2 *s* Dunellen,  
 N. J.  
 Churchill, M. B. *ph* 415 W. 118  
 Claffy, M. L. C. 3 *b* 27 Tompkins pl., Bklyn.  
 Clare, A. C. 3 *t* 471 Manhattan ave.  
 Clark, A. H. *pl* 616 W. 113  
 Clark, A. M. 3 *t* 3136 Bway.  
 Clark, F. B. 3 *s* 627 W. 115  
 Clark, F. E. 1 *m* 465 W. 57  
 Clark, F. M. 4 *s* 19 W. 126  
 Clark, F. M. 2 *l* 524 W. 123  
 Clark, G. H. 4 *b* 258 W. 78  
 Clark, L. S. 4 *t* 252 W. 121  
 Clark, M. M. *p* 214 6th ave.,  
 Bklyn.  
 Clark, T. F. 2 *c* 346 Manhattan ave.  
 Clark, W. E. *pl* 314 W. 113  
 Clark, W. I., Jr. 3 *m* 127 E. 30  
 Clarke, L. V. 2 *m* 346 W. 58  
 Clarkson, J. B. 1 *b* 1230 Amsterdam ave.  
 Clarkson, J. G. 1 *s* 684 E. 144  
 Clay, T. A. 4 *m* 30 Sheridan ave.  
 Paterson, N. J.  
 Cleaveland, W. A. 4 *t* 522 W. 123  
 Cleghorn, C. D. 3 *m* 273 W. 70  
 Clevenger, G. H. gr *s* 432 W. 124  
 Clifford, O. M. 2 *s* 519 W. 123  
 Close, E. B. 1 *l* 11 Cedar pl., Yonkers, N. Y.  
 Closs, R. E. 4 *t* 1230 Amsterdam ave.  
 Clough, B. 4 *b* 8 W. 128  
 Clum, H. D. *ph* 152 Oakland,  
 Bklyn.  
 Clune, M. T. 1 *s* 367 Smith,  
 Peekskill, N. Y.  
 Cobb, P. *ph* 49 E. 21  
 Cocks, G. H. 4 *m* 50 W. 11  
 Coddington, E. *p* 24 W. 58  
 Coe, C. T. sp *b* Fifth Ave. Hotel  
 Coe, M. S. *p* 42 W. 52  
 Coelos, J. A. 3 *s* 5 E. 69  
 Coerr, F. D. H. 3 *m* 104 Madison ave.  
 Coffee, R. I. gr *t* 736 Lexington ave.

- Coggeshall, A. 4 s 400 W. 153  
 Cohen, A. J. 1 l 150 W. 87  
 Cohen, E. 1 m 60 E. 7  
 Cohen, F. 4 m 116 E. 91  
 Cohen, H. 2 m 1524 Washington ave.  
 Cohen, H. L. 4 b 9 W. 91  
 Cohen, H. N. 2 b 177 E. 93  
 Cohen, L. 2 m 2031 Fulton, Bklyn.  
 Cohen, M. R. ph 58 E. 106  
 Cohen, N. 1 m 357 Grand  
 Cohen, N. M. 2 c 154 W. 120  
 Cohn, A. E. 3 m 64 E. 66  
 Colburn, H. S. gr t 201 W. 91  
 Cole, R. 3 l 719 St. Nicholas ave.  
 Colety, F. 2 l 139 W. 97  
 Colie, D. 4 c 101 W. 73  
 Colie, E. M., Jr. 2 m 101 W. 73  
 Colles, J. N. p 1161 Amsterdam ave.  
 Collier, J. sp c 512 Manhattan ave.  
 Collins, F. W. 3 s 139 W. 63  
 Colloque, O. P. ph 531 W. 124  
 Collyer, H. L. 1 l 109 E. 54  
 Colt, M. E. S. 4 b 1230 Amsterdam ave.  
 Colter, M. C. ph 416 W. 118  
 Colton, E. 4 t 1230 Amsterdam ave.  
 Colton, E. A. 4 m 127 W. 61  
 Colton, L. 4 t 507 Manhattan ave.  
 Commiskey, L. J. J. 3 m 96 Lincoln pl., Bklyn.  
 Compton, A. D. ph 40 W. 126  
 Compton, M. G. 3 b 19 Halsey, Bklyn.  
 Comstock, W. P. 4 c 460 W. 150  
 Conant, M. P. ph 419 W. 118  
 Conant, S. H. pl 7 W. 92  
 Condit, J. P. 1 b 15 Lincoln, East Orange, N. J.  
 Cone, N. K. 2 l 2053 7th ave.  
 Conger, D. 1 t 1230 Amsterdam ave.  
 Conley, D. S. 1 m 164 W. 81  
 Conlon, P. J. 2 m 159 W. 64  
 Connell, W. H., Jr. 2 s 925 West End ave.  
 Conner, M. E. 3 t 74 W. 124  
 Conover, G. M. 2 b 137 W. 127  
 Consalus, F. H. 4 t 206 St. Nicholas ave.  
 Conwell, E. V. 1 l 366 W. 116  
 Cook, A. E. 4 m 483 14th, Bklyn.  
 Cook, E., 3 m 135 E. 37  
 Cook, F. S. 2 s 430 W. 118  
 Cook, T. F. 3 s 154 E. 37  
 Cook, W., Jr. 1 l 135 E. 37  
 Cooke, R. E. 3 m 366 W. 57  
 Cookson, J. S. 3 s 439 W. 123  
 Cooley, A. M. 4 t 140 W. 130  
 Cooley, H. W. 2 b 240 W. 14  
 Coons, O. M. sp b 246 W. 120  
 Cooper, C. B. 1 t 417 W. 118  
 Cooper, E. M. 3 s 57 Convent ave.  
 Cooper, F. L. 2 c 57 Convent ave.  
 Cope, F. R., Jr. pl 111 Eldridge  
 Corbet, W. W. 3 s 324 W. 115  
 Corcoran, D. 2 m 73 E. 85  
 Cordley, A. M. pl Glen Ridge, N. J.  
 Corder, R. 2 m 306 W. 58  
 Corlis, W. S. sp c 150 5th ave.  
 Corn, B. 1 c 23 E. 128  
 Cornell, M. L. 2 s 29 E. 37  
 Cornman, L. R. 4 m 608 Lexington ave.  
 Corscaden, J. A. 1 m 318 W. 57  
 Cosenza, M. E. ph 174 W. 96  
 Cosgrove, J. J. 4 m  
 Costello, T. J. 2 s 113 W. 96  
 Costikyan, A. sp b E. Orange, N. J.  
 Cottle, G. F. 2 m 1 Gramercy Pk.  
 Coughlan, J. J. 2 l 201 E. 31  
 Cowan, J. A. 3 m 36 Grove  
 Cowen, H. G. 1 l 130 E. 47  
 Cowles, H. C., Jr. 4 m 138 W. 104  
 Cox, H. N. 3 s 683 Madison, Bklyn.  
 Cox, M. V. 3 t 1230 Amsterdam ave.  
 Craig, A. H. sp t 606 W. 115  
 Craig, H. A. 3 m 235 W. 54  
 Craighead, E. pl Flushing, N. Y.  
 Craine, W. R. pl 1230 Amsterdam ave.  
 Cramer, M. E. gr t 1230 Amsterdam ave.  
 Cramp, W. C. 3 m 331 W. 55  
 Crandall, S. B. pl 507 W. 112  
 Crane, J. 1 s 35 W. 47  
 Crawford, L. W., Jr. ph 457 W. 123  
 Crawford, W. K. 1 l 903 West End ave.  
 Creevey, W. S. 1 l 536 W. 114  
 Crocker, M. S. sp b 318 W. 84  
 Cronin, E. J. 2 m 102 W. 64  
 Crowell, F. S. 2 s 417 W. 118  
 Crowell, J. W. 4 c 188 Franklin pl., Flushing, L. I.  
 Crudden, F. sp m 26 Dominick



Cruser, F. V. D. 4 s 310 W. 115  
 Cummings, F. A. *ph* 412 W. 115  
 Cummings, W. L. 1 l 303 W. 102  
 Curlett, A. E. 3 s 430 W. 118  
 Currier, F. P. 1 s 113 W. 93  
 Curry, M. 4 s Fort Peace,  
 New Brighton, N. Y.  
 Curtis, G. B. 1 s 417 W. 118  
 Curtis, H. S. 3 l 417 W. 114  
 Curtis, N. C. 2 s 463 Manhattan  
 ave.  
 Curtis, S. T. 3 b 2787 Bway.  
 Cushing, M. G. *ph* 419 W. 118  
 Cussler, E. 3 m 15 W. 63  
 Cuthel, C. W. 2 c 8 W. 119  
 Cutting, J. R. 1 t 154 Kent, Bklyn.  
 Daignault, E. J. 3 l 505 W. 124  
 Daly, E. T. *ph* Hudson Terrace,  
 Yonkers, N. Y.  
 Daly, W. A. 3 s Hudson Terrace,  
 Yonkers, N. Y.  
 Dana, C. A. *sp l* 55 W. 51  
 Dana, R. H., Jr. 1 s 419 W. 118  
 Daniels, A. L. 4 t  
 1230 Amsterdam ave.  
 Daniels, H. McD., 4 b  
 1230 Amsterdam ave.  
 Dantziger, C. T. 2 s 122 W. 139  
 Darling, E. L. 4 t  
 1230 Amsterdam ave.  
 Darling, N. 1 b Stony Brook, L. I.  
 Darlington, L. 3 l 414 W. 118  
 Dattelbaum, M. J. 3 m  
 362 Sackman, Bklyn.  
 Davenport, E. L. 1 t  
 1230 Amsterdam ave.  
 Davenport, F. M. *pl*  
 Yonkers, N. Y.  
 David, C. T. 2 m 31 First  
 David, F. H. 4 m 33 W. 126  
 Davidoff, H. *ph* 283 W. 118  
 Davidson, F. 3 t  
 Dobbs Ferry, N. Y.  
 Davidson, I. 3 m 79 W. 118  
 Davidson, M. E. S. 3 t 78 W. 102  
 Davis, A. 4 c 133 Monroe, Bklyn.  
 Davis, A. *pl* 1230 Amsterdam ave.  
 Davis, A. L. 1 l 152 E. 94  
 Davis, A. M. 3 c 98 Madison  
 Davis, E. H. *pl*  
 60 St. Nicholas ave.  
 Davis, E. Le R. 1 l 57 New,  
 Orange, N. J.  
 Davis, J. *sp l* 610 Marcy ave.,  
 Bklyn.  
 Davis, L. P. 3 l 332 Palisade  
 ave., Yonkers, N. Y.

Davis, M. M., Jr. *pl* 244 W. 104  
 Davoe, W. B. 1 c 321 W. 103  
 Day, E. 2 b 1146 Tinton ave.  
 Day, H. C. *sp c* 420 Madison ave.  
 Day, H. L. 1 m 400 W. 57  
 Day, H. M. 4 t 507 W. 124  
 Day, M. M. 2 c 422 W. 20  
 Day, S. M. 3 s 18 W. 19  
 Deacon, H. G. 1 t 108 E. 86  
 Deal, F. A. 4 m 421 W. 57  
 Dean, E. C. 2 s 30 W. 44  
 Dean, M. B. 3 l 358 W. 123  
 Dean, P. R. *gr t* 505 W. 142  
 De Bardeleben, M. C. 4 t  
 1230 Amsterdam ave.  
 De Baun, R. 4 m 106 W. 61  
 de Beaumont, V. E., *ph*  
 723 Columbus ave.  
 Decker, C. H. 2 s 418 W. 124  
 Decker, C. T. 1 m  
 Dederer, P. H. *p* 608 W. 113  
 Deem, M. G. *gr t*  
 1230 Amsterdam ave.  
 de Forest, E. L. 3 s 1 West 72  
 de Frémery, H. 1 m 337 W. 57  
 Deimel, R. F. *p* 209 W. 97  
 Deixel, A. 1 c  
 648 Amsterdam ave.  
 de Farnette, G. H. *ph*  
 330 West End ave.  
 De Klyn, C. C. 2 m 71 W. 104  
 De Koven, B. 3 m 1665 3d ave.  
 de Lara, F. B. 2 s 269 W. 127  
 del Rio, R. 1 s  
 69 St. Nicholas ave.  
 Demarest, G. 2 s 244 W. 138  
 Demeritt, H. S. 3 s New Canaan,  
 Conn.  
 Dempwolf, C. H., Jr. 4 s  
 240 W. 114  
 Denbigh, J. H. *gr t* 852 E. 163  
 Denison, G. 2d, 3 s  
 91 Division ave., Bklyn.  
 Denton, M. 3 b 271 E. 32,  
 Paterson, N. J.  
 De Nyse, R. Van N. 2 l  
 303 So. 5th, Bklyn.  
 Denzer, B. S. 1 c 18 Sickles ave.,  
 New Rochelle, N. Y.  
 Derleth, W. T. 2 s 674 E. 135  
 Derow, D. 2 m 202 Eldridge  
 de Sallier du Pin, R. A. 2 s  
 503 W. 124  
 Despard, C. S., Jr. 1 s 304 W. 103  
 Detwiller, A. K. 1 m 328 W. 56  
 Deutsch, M. 1 s 249 E. 7  
 Deweese, F. M. 1 l 439 W. 123  
 De Yoe, E. A. 3 l Ramsay, N. J.

- Dias, J. L. 4 m 127 W. 69  
 Dickinson, F. McL. 2 m 318 W. 57  
 Dickinson, H. C. 1 l 105 E. 25  
 Dickler, N. N. 1 c 440 Watkin, Bklyn.  
 Dickson, C. L. 1 s 430 W. 118  
 Dickson, C. W. p 159 W. 120  
 Dickson, S. K. sp l 412 W. 115  
 Dieffenbach, R. H. 3 m 358 W. 58  
 Diehl, F. ph 700 Park ave.  
 Dietz, E. A. 2 b 136 E. 43  
 Dilworth, J. F. pl 28 Lincoln, Jersey City, N. J.  
 Dingman, J. C. m 15 W. 63  
 Dingman, T. A. 3 m 15 W. 63  
 Dionne, G. A. L. ph 1161 Amsterdam ave.  
 Dippel, J. P. 3 l 183 E. 93  
 Dittenhoefer, L. F. 4 s 1026 Park ave.  
 Divorsky, H. P. 1 l 239 E. 60  
 Doane, C. F. 1 s 15 W. 91  
 Dodd, S. W. 2 m 196 Clinton ave., Newark, N. J.  
 Doane, H. F. ph 252 W. 104  
 Dodge, M. H. 4 c 232 Madison ave.  
 Doherty, G. A. 2 l 735 Lexington ave.  
 Dolgenas, J. A. ph 736 Lexington ave.  
 Dollin, E. N. sp l 1377 Lexington ave.  
 Dolphin, B. E. 3 m 415 W. 118  
 Dolphin, M. E. 3 t 415 W. 118  
 Donigan, E. A. 1 b 126 Archer ave., Mt. Vernon, N. Y.  
 Donnellan, G. L. 2 l 883 6th ave.  
 Donnelly, J. 1 l 193 Covert, Bklyn.  
 Donnelly, J. J. sp l 269 W. 117  
 Donnelly, M. 2 b 412 W. 149  
 Donovan, B. F. 2 l 250 W. 128  
 Doon, C. W. 2 s 704 E. 138  
 Doran, C. E. 4 m 1349 W. 6  
 Dorcas, H. C. gr t 227 W. 122  
 Dorr, G. H. 2 l 262 W. 107  
 Dorrian, C. I. 2 b 2340 7th ave.  
 Dorsett, L. A. 1 b Richmond Hill, L. I.  
 Doster, F. F. 3 t 519 W. 123  
 Dottenheim, H. S. 2 l 2512 11th ave.  
 Doty, H. S. 2 s 69 Locust Hill ave., Yonkers, N. Y.  
 Doty, K. S. 3 b 553 W. 141  
 Doughty, J. B. 1 s 73 Manhattan ave.  
 Dowling, R. E. 4 t 500 W. 123  
 Downs, F. G. 1 c 75 Fairview ave., Jersey City, N. J.  
 Doyle, C. A. 1 l 302 Humboldt, Bklyn.  
 Doyle, J. B. 3 l 606 W. 113  
 Draper, A. O. 2 b 18 W. 8  
 Draper, G. 1 m 18 W. 8  
 Drennen, W. E. 1 m 366 W. 57  
 Dressler, W. B. 3 l Highbridge, N. Y.  
 Driscoll, G. C. 2 m 137 W. 64  
 Droge, H. G. 1 s Flushing, L. I.  
 Drowne, G. L. ph 700 Park ave.  
 Drucker, A. P. ph 736 Lexington ave.  
 Druding, F. D. 1 s 219 W. 106  
 Drummond, E. M. sp t 331 Grand  
 Dryfoos, W. S. ph 17 Lexington ave.  
 Dublin, L. I. p 320 W. 117  
 Du Bois, E. F. 1 m West New Brighton, S. I.  
 Du Bois, F. E. 4 m 303 Lexington ave.  
 Duckett, W. J. 3 m Skaneateles, N. Y.  
 Duden, F. H. 2 s Bronxville, N. Y.  
 Duden, H., Jr. 3 l P. O. Box 48, Bronxville, N. Y.  
 Duden, W. 3 s Bronxville, N. Y.  
 Dudley, B. W. 3 m 127 W. 61  
 Dudley, P. sp c 417 W. 118  
 Duell, W. C. 1 l 61 Washington, Tarrytown, N. Y.  
 Duffey, L. R. 4 t 1230 Amsterdam ave.  
 Dufour, A. p 965 Lexington ave.  
 Dumas, J. P. 2 l 358 W. 123  
 Dummond, E. sp t 331 Grand  
 Duncan, O. B. 3 m 202 Carroll, Paterson, N. J.  
 Duncombe, F. H. 2 s 45 1st ave., Mt. Vernon, N. Y.  
 Dunham, F. G. 1 l 521 W. 123  
 Dunlop, W. C. 1 s 27 Bellmont Ter., Yonkers, N. Y.  
 Dunn, A. ph 700 Park ave.  
 Dunn, D. H. 2 s 419 W. 118  
 Dunney, J. A. ph St. Joseph's Seminary, Dunwoodie, N. Y.  
 Dunning, M. A. 3 t 1230 Amsterdam ave.  
 Durant, A. L. sp b 603 West End ave.

*Durant, E.* 4 t 603 West End ave.  
*Durham, K.* 1 l 404 W. 145  
*Durham, R.* 4 m 404 W. 145  
*Dutcher, E. O.* ph 496 Third, Bklyn.  
*Duval, R. G.* 1 s 26 W. 21  
*Dwight, K.* 2 m 31 Mt. Morris Park, West  
*Dyer, H. P.* 2 s 627 W. 115  
*Dyrsen, H. H.* 4 c 309 W. 121  
  
*Eakin, A.* 3 s Englewood, N. J.  
*Earle, E. L.* gr t 140 Manhattan ave.  
*Earle, E. W.* 1 l 235 W. 108  
*Earle, R.* sp b 600 W. 114  
*Earle, V.* de la M. 4 c  
 "Earle Cliff," Washington Hts.  
*Earle, W. P. S.* 3 c "Earle Cliff," Washington Hts.  
*Early, M. J., Jr.* 2 l Prospect St., City Island  
*Eastman, H. W.* 1 c Roslyn, L. I.  
*Eastman, L. P.* 1 b 4 E. 70  
*Eastmond, C.* 3 m 199 Madison, Bklyn.  
*Easton, K.* 1 c 149 W. 73  
*Eaton, A. B.* pl 526 W. 123  
*Ebling, L. A.* 3 s 935 Prospect ave.  
*Ebling, R. W.* 1 s 935 Prospect ave.  
*Echeverria, F. J.* 1 c 141 W. 73  
*Eckert, W.* 3 c International Bank Note Co., 18 Bway.  
*Eckhardt, C. E.* 4 t 312 S. Broad, Elizabeth, N. J.  
*Eckstein, H. J.* 1 c 36 W. 89  
*Eddingfield, F. T.* 1 s 212 W. 69  
*Edebohls, A. J.* 1 s 59 W. 49  
*Edelstein, I.* 3 l 1433 Madison ave.  
*Edgar, J. A.* 1 m 71 Congress, Jersey City, N. J.  
*Eggers, C. F. A.* sp m 55 Greenpoint ave., Bklyn.  
*Egleston, J. D.* 3 b 501 W. 120  
*Egner, A. F.* 4 c 1015 Broad, Newark, N. J.  
*Ehrhardt, C. F.* 1 m 706 E. 137  
*Ehrich, E.* 2 b 54 W. 75  
*Ehrich, L. I.* sp b 54 W. 75  
*Eichhorn, H.* 3 m 238 E. 7  
*Eimer, E. O.* 1 c 220 E. 19  
*Einstein, A.* J. sp b 39 W. 57  
*Einstein, M.* J. 3 b 44 W. 53  
*Eisenberg, A. D.* 1 m 386 E. 10  
*Eldredge, G. L.* 1 s 22 W. 31

*Elgar, H. B.* 3 c 275 W. 132  
*Elgas, H. M.* 3 c 121 W. 87  
*Elias, H. H.* 4 c 18 W. 71  
*Elias, L. W.* 4 m 408 W. 58  
*Elkus, S. A.* 4 t 45 E. 61  
*Elleau, A. L.* 1 b 415 W. 118  
*Elliot, L. M.* 3 t 1230 Amsterdam ave.  
*Elliott, G. R. B.* 1 s 507 W. 112  
*Ellis, G. A.* 3 c 521 W. 123  
*Ellsworth, L.* sp s 2 W. 16  
*Elmendorf, W.* Ten-Eyck, 1 m 46 W. 93  
*Elmore, W. B.* 4 m 310 W. 115  
*Elsberg, A. M.* 2 c 105 E. 57  
*Elsworth, H. J.* sp c 604 W. 114  
*Elting, H. S.* 3 b 237 N. Bway., Yonkers, N. Y.  
*Elting, L.* 3 t 607 5th ave.  
*Elting, M.* ph 360 W. 21  
*Elwell, T.* pl 147 Pacific, Bklyn.  
*Embury, L. B.* 3 b Englewood, N. J.  
*Emerson, H. T.* sp b 81 Madison ave.  
*Emory, G. B.* 2 m 59 W. 62  
*Engelbrekt, S. C.* 4 t New Rochelle, N. Y.  
*Engelson, J. E.* 1 m 1968 Hughes ave.  
*Englehart, R. F.* sp t 92d and Madison ave.  
*Ennis, O'N.* 3 t 510 W. 124  
*Enos, H. C.* 1 s 1161 Amsterdam ave.  
*Enright, E. M.* 3 b 415 W. 118  
*Epler, D. A.* 4 m 137 W. 64  
*Eppinger, J. J.* 1 l 542 W. 113  
*Erb, W. M.* 2 l 134 W. 117  
*Erdwurm, E.* 2 t 108 Orient ave., Jersey City, N. J.  
*Erdwurm, F.* 4 m 108 Orient ave., Jersey City, N. J.  
*Ernest, N.* 4 t Mt. Vernon, N. Y.  
*Ernest, R. H.* 2 s 536 W. 114  
*Ernst, A. O.* 2 l 226 W. 113  
*Ernst, B. M. L.* 3 l 152 W. 122  
*Ernst, M.* 1 b 519 W. 123  
*Eron, J. E.* ph 163 E. Bway.  
*Erskine, H.* 3 b 306 W. 93  
*Erskine, J.* ph 306 W. 93  
*Erskine, J. P.* 4 m 318 W. 57  
*Erstein, R.* 1 b 43 E. 63  
*Erving, E. C.* sp b 17 W. 50  
*Esche, A. S.* sp l 2 Walker  
*Esselborn, K. A.* 2 s 189 W. 100  
*Esser, J. H.* 3 l 209 E. Sydney ave., Mt. Vernon, N. Y.

- Essex, W. L. 1 c 8 Mill,  
Nyack, N. Y.
- Estee, O. D. 3 l 430 W. 118
- Evalenke, W. A. 3 s 128 E. 101
- Evans, A. P. 4 m  
371 Sterling pl., Bklyn.
- Evans, A. W. 1 s 308 W. 115
- Evans, E. G. 1 b 418 W. 160
- Evans, J. H. 1 c 21 Walnut  
Crescent, Montclair, N. J.
- Evans, L. M. ph  
1230 Amsterdam ave.
- Evans, W. A. D. 4 s 147 W. 130
- Everett, S. H., Jr. 4 s  
490 Hancock, Bklyn.
- Ewing, E. C. 4 t 209 W. 87
- Ewing, G. R. M. 1 s  
20 St. Nicholas pl.
- Eytinge, E. O. J. 3 m 10 W. 65
- Faber, J. P. 4 s 315 E. 58
- Fackenthal, F. D. 1 c  
93 Rodney, Bklyn.
- Fackenthal, J. D. 3 l  
93 Rodney, Bklyn.
- Fahs, S. L. gr t 522 W. 123
- Fairchild, C. W. 4 m  
Tarrytown, N. Y.
- Fairchild, R. D. 1 b 557 W. 124
- Fairchild, R. P. c 557 W. 124
- Fairfield, C. D. sp t  
1230 Amsterdam ave.
- Falion, G. M. 2 c 329 Pacific,  
Bklyn.
- Falk, M. J. 3 s 16 E. 81
- Farley, E. V. 2 l  
980 De Kalb ave., Bklyn.
- Farley, F. C. 1 s Buckingham  
Hotel, 5th ave. and 50th
- Farmer, M. B. 1 b 21 Davis ave.,  
New Rochelle, N. Y.
- Farrar, P. C. ph 239 W. 108
- Farrelly, G. M. 2 b 224 W. 137
- Fasola, J. B. 2 l 204 E. 109
- Fassett, B. S. 4 m  
1070 Madison Ave.
- Fassett, E. C. 3 m 325 W. 51
- Fassett, L. 3 l 4 St. Nicholas Ter.
- Faucett, S. T. 4 m
- Fawcett, E. H. sp b 223 W. 106
- Fay, C. R. pl 113 W. 113
- Feeter, W. H. 1 s 61 W. 104
- Feigenbaum, C. 3 t 747 E. 5
- Felberbaum, D. 1 m 168 E. 103
- Feld, H. 1 c 90 Sheriff
- Feld, M. ph 115 Essex
- Feldman, H. C. 1 c  
1307 Madison ave.
- Feldmann, L. M. 1 s 541 W. 124
- Ferenczy, A. 1 s 151 E. 81
- Ferrari, R. A. 1 c 415 E. 115
- Ferreira, Le R. E. sp c 30 Gould  
ave., Newark, N. J.
- Ferrigan, R. sp t 18 Funel Ter:
- Ferris, M. D. 2 c Dobbs Ferry,  
N. Y.
- Ferris, O. B. sp c 126 Claremont  
ave., Montclair, N. J.
- Fettretch, C. S. 1 s  
803 Lexington ave.
- Fettretch, E. B. 2 b  
803 Lexington ave.
- Fiaschi, P. 2 m 418 5th ave.
- Fichter, L. 3 m 306 E. 119
- Field, F. E. pl 41 E. 69
- Fies, M. H. 3 s 126 W. 117
- Filfuss, N. gr t 79 Willett
- Finch, J. K. 1 s 130 W. 82
- Finch, J. M. 1 s 78 Centre ave.,  
New Rochelle, N. Y.
- Finch, L. H. 4 m 556 Halsey,  
Bklyn.
- Finch, R. A. sp b 243 W. 56
- Finigan, J. E. 1 l 524 W. 123
- Fink, C. G. 4 c 133 W. 85
- Fink, M. 1 m 1641 Madison ave.
- Finkel, I. H. 2 s 62 2d ave.
- Finkelstein, H. 3 m  
72 So. Washington sq.
- Finn, F. A. 4 m 157 Danforth  
ave., Jersey City, N. J.
- Finney, C. A. 1 l 270 W. 115
- Finnigan, J. J. ph 157 W. 63
- Fischer, H. A. 1 m  
180 St. Nicholas ave.
- Fischer, H. M. 3 b 129 W. 70
- Fishel, L. H. ph Babylon, N. Y.
- Fisher, A. F. 2 b 149 S. 2d ave.  
Mt. Vernon, N. Y.
- Fisher, C. F. 1 m 242 Osborn,  
Bklyn.
- Fisher, H. A. 3 s  
914 St. Nicholas ave.
- Fisher, J. R. 3 c 434 W. 124
- Fisher, M. S. sp b 1 W. 92
- Fisher, T. E. 2 s 149 South 2d  
ave., Mt. Vernon, N. Y.
- Fitch, A. P. pl 41 E. 69
- Fitch, E. H. 4 b 273 W. 84
- Flaks, A. 3 m 120 Monroe
- Flanders, J. A. 1 s 430 W. 118
- Flatto, I. 3 m 141 Monroe
- Fleming, D. J. p 41 E. 69
- Fleming, W. S. sp c
- Flemming, E. A. 1 m  
540 McDonough, Bklyn.

Fletcher, N. P. *ph* 290 Park ave.  
 Fletcher, S. F. 2 *b* 278 Prospect  
 pl., Bklyn.  
 Flores, E. 1 *m* 441 W. 57  
 Fluhrer, H. P. *ph* Murray Hill  
 Hotel  
 Fluhrer, L. P. 1 *s*  
 Murray Hill Hotel  
 Folsom, D. M. 3 *s* 416 W. 118  
 Folsom, R. P. 1 *m* 22 W. 60  
 Fonda, D. H. *sp c* 529 W. 141  
 Fontaine, A. C. *ph* 541 W. 124  
 Fontaine, M. L. 1 *b* 541 W. 124  
 Fontrier, M. A. 1 *c* 202 W. 128  
 Foote, F. S., Jr. 3 *s*  
 Montclair, N. J.  
 Forbes, F. B. 3 *c* 8 W. 56  
 Ford, C. M. 1 *l* 32 Liberty,  
 cr. Page and Conant  
 Ford, F. C. 1 *s*  
 5 Mt. Morris Park, W.  
 Ford, F. G. 1 *l*  
 Morristown, N. J.  
 Ford, W. A. 1 *c* 22 S. Bway.,  
 White Plains, N. Y.  
 Ford, W. H. 4 *s* 5 Mt. Morris  
 Park West  
 Forman, A. G. 2 *b* 2394 7th ave.  
 Forrest, N. S. 3 *t*  
 828 St. Nicholas ave.  
 Forsch, A. 3 *l* 31 W. 86  
 Forsch, S. S. 1 *c* 31 W. 86  
 Forst, L. B. 1 *s* 250 W. 131  
 Forsyth, J. P. 2 *l* 19 W. 125  
 Fort, J. I. 3 *c* 415 W. 117  
 Fortmann, A. 1 *t*  
 Union Hill, N. J.  
 Foshay, F. E. 1 *b* 315 Irving ave.,  
 Port Chester, N. Y.  
 Foss, F. H. 1 *l* 457 W. 123  
 Foster, F. J. *gr t* 107 W. 103  
 Foster, J. H. *ph* 365 W. 116  
 Foster, W. E. *ph*  
 438 Manhattan ave.  
 Foucar, F. H. 3 *c*  
 1275 Lexington ave.  
 Fountain, C. B. 3 *b*  
 1230 Amsterdam ave.  
 Fowler, R. H. 1 *c* 60 E. 68  
 Fowler, S. *ph* 138 E. 40  
 Fowler, W. W. *gr t* West New  
 Brighton, S. I.  
 Fowles, G. M. *pl* 2190 7th ave.  
 Fox, De Witt, 2 *l* 249 W. 139  
 Fox, F. W. 1 *m* 815 Boulevard,  
 Bayonne, N. J.  
 Fox, W. *p* 555 E. 86  
 Fraenckel, R. H., Jr. 2 *c* 55 W. 69

Framback, C. L. 2 *s* 542 W. 113  
 Frame, M. T. 1 *t* 27 So. 13th  
 ave., Mt. Vernon, N. Y.  
 Franc, C. B., Jr. 2 *s* 648 Tenth,  
 Bklyn.  
 Francis, W. C. 2 *s*  
 1161 Amsterdam ave.  
 Franco, E. *gr s* 544 W. 113  
 Frank, A. 2 *s* 127 E. 86  
 Frank, E. 4 *s* 209 W. 127  
 Frank, E. E. 1 *b* 138 W. 78  
 Frank, H. 4 *s* 378 Vanderbilt  
 ave., Bklyn.  
 Frank, J. J. 2 *c* 138 W. 78  
 Frank, W. 4 *c* 209 W. 127  
 Frankel, E., Jr. 2 *m* 217 E. 17  
 Frankenthaler, A. 3 *l* 11 E. 87  
 Frankfield, H. 1 *b* 26 W. 85  
 Franklin, L. 4 *m* 181 Bay View  
 ave., Jersey City, N. J.  
 Franklin, M. 2 *b* 17 E. 129  
 Fraser, A. J. 2 *s* 146th and  
 Gerard ave.  
 Freeborn, E. J. 4 *t*  
 1230 Amsterdam ave.  
 Freed, F. H. 1 *b* 129 W. 87  
 Freeman, H. W. 2 *l* 117 E. 78  
 Freeman, J. V., Jr. 3 *m* Alms-  
 house Hospital, Blackwell's Id.  
 French, H. T. *ph* 150 Macon,  
 Bklyn.  
 Freund, M. 1 *s*  
 1020 Lexington ave.  
 Frey, D. I. 3 *m* 223 Clinton  
 Fricke, W. M. 1 *b*  
 955 West End ave.  
 Fridenberg, P. 3 *t* 114 W. 126  
 Fried, E. S. 3 *c* 47 W. 87  
 Fried, G. A. 4 *m* 47 W. 87  
 Fried, J. A. 1 *s* 47 W. 87  
 Fried, R. 1 *b* 225 E. 63  
 Friedenber, A. M. 3 *l*  
 186 W. 135  
 Frieder, W. 1 *m* 65 E. 106  
 Friedman, H. J. 4 *m* 261 E. 4  
 Friedman, H. M. 2 *m* 84 Lewis  
 Friedman, S. S. 1 *m* 209 E. 72  
 Friedmann, J. 1 *m*  
 1408 5th ave.  
 Friess, L. L. 3 *t* 536 Union ave.  
 Fritts, H. H. 2 *m* 328 W. 56  
 Frost, H. V. 4 *t* 29 E. 2d St.,  
 Mt. Vernon, N. Y.  
 Frost, M. K. *pl* 419 W. 118  
 Frothingham, M. K. 3 *b*  
 60 W. 68  
 Fruchthandler, E. A. 2 *m*  
 318 W. 121

- Fry, E. L. 4 b Bath Beach, L. I.  
 Fuentes, V. ph 50 W. 105  
 Fuerst, S. M. gr t 520 W. 123  
 Fuhlhage, L. H. ph 523 W. 123  
 Fujioka, S. pl 17 Concord, Bklyn.  
 Fuld, L. F. 4 c 130 E. 110  
 Fuller, F. J. 2 l 504 W. 151  
 Fuller, H. L. 1 l 165 E. 49  
 Fulton, C. A. 1 s 610 N. Bway.,  
 Yonkers, N. Y.  
 Funk, M. L. 1 c San-Samour,  
 142d and Amsterdam ave.  
 Furst, S. sp m 952 Teller ave.  
 Gaass, G. G. 2 l 321 W. 118  
 Gaddis, C. J. 3 t 355 4th, Jersey  
 City, N. J.  
 Gage, B. ph 34 W. 50  
 Gage, E. B. 3 s 519 W. 123  
 Gage, G. H. 4 m 127 W. 67  
 Gaige, R. C. 1 c 415 W. 117  
 Gain, J. C. 3 m Roosevelt Hospital  
 Gale, F. S. 1 m Sidney,  
 Delaware Co., N. Y.  
 Gallert, D. P. 3 b 48 W. 119  
 Gammon, E. M. gr t 237 W. 108  
 Gano, L. E. sp b 526 W. 114  
 Gansmann, R. W. 2 s Leonia, N. J.  
 Gardner, E. W. sp m 337 W. 14  
 Garner, P. P. 4 t 408 W. 115  
 Garretson, W. VanP. 4 m  
 153 Clerk, Jersey City, N. J.  
 Garrison, J. M. 3 t 17 E. 124  
 Garside, C. Z. 4 m 112 Stone,  
 Newark, N. J.  
 Garvin, J. L. pl 700 Park ave.  
 Garvin, W. C. 4 m 310 W. 115  
 Gash, A. J. 2 t 1230 Amsterdam ave.  
 Gash, A. T. 2 t 1230 Amsterdam ave.  
 Gaskins, J. D. 2 m 122 W. 79  
 Gast, R. S. 1 l 415 W. 118  
 Gautert, C. P. 1 c 849 St. Nicholas ave.  
 Gay, F. W. 3 c 34 S. 12,  
 Newark, N. J.  
 Gayle, E. F. 1 l 519 W. 123  
 Gearin, H. C. 3 l 416 W. 118  
 Geer, E. T. 4 c 113 W. 11  
 Geer, W. M., Jr. 2 c 113 W. 11  
 Geiger, A. W. 2 s  
 Gellert, S. 3 m 629 Sixth  
 George, D. G. 2 l 365 W. 116  
 Gerhard, H. W. 1 s 39 Strong pl., Bklyn.  
 Gernernd, F. B. 2 l 321 W. 118  
 Gerster, J. C. A. 2 m 34 E. 75  
 Ghiglione, A. J. 3 m Arrochar, S. I.  
 Gibert, F. E., Jr. 1 s 114 W. 79  
 Gibson, C. W. 2 l 557 W. 124  
 Giddings, H. S. 3 l 150 W. 79  
 Gilchrist, A. M. 4 t 118 W. 109  
 Gildersleeve, G. S. sp s 416 W. 118  
 Gill, L. G. 2 t Stapleton, S. I.  
 Gillen, W. A., Jr. 1 m 119 Mercer, Jersey City, N. J.  
 Gillespie, J. P. pl 987 Madison ave.  
 Gillet, L. B. 3 c 242 E. 86  
 Gillette, A. C. 1 l 519 W. 123  
 Gillette, K. S. 2 t 156 Cottage  
 ave., Mt. Vernon, N. Y.  
 Gillies, J. W. 2 s 354 W. 120  
 Gillies, W. F. 3 s 555 W. 141  
 Gilliland, J. F. 3 t 1230 Amsterdam ave.  
 Gillin, J. L. pl 231 E. 76  
 Gilmour, R. T. sp s 519 W. 123  
 Ginsburgh, E. L. 2 m 22 E. 111  
 Gissel, H. W., Jr. 3 c 235 Bway.,  
 Bklyn.  
 Gjevre, A. H. ph 366 W. 127  
 Glanton, L. P. 4 t 100 W. 105  
 Glanz, H. 3 m 74 Norfolk  
 Glasby, H. S. 3 s 14 Roseville  
 ave., Newark, N. J.  
 Glenn, G. 3 l 231 W. 96  
 Glenn, H. M. sp b 231 W. 96  
 Glenney, W. L. 2 l 542 W. 113  
 Gleysteen, W. H. pl 41 E. 96  
 Goadby, A. gr t 21 W. 35  
 Goddard, H. C. ph 417 W. 114  
 Godwin, V. 2 s 125 W. 122  
 Goelet, R. W. 1 l 591 5th ave.  
 Goldbaum, L. 1 s 323 Snediker ave., Bklyn.  
 Goldberg, A. 1 m 261 2d st.  
 Goldberg, H. 2 s 128 E. 86  
 Goldberg, H. 3 s 116 Stanton  
 Goldberger, L. A. 1 m 128 Cannon  
 Goldberger, N. S. 3 c 57 E. 60  
 Goldenweiser, A. 1 m 521 W. 150  
 Goldenweiser, E. 3 c 521 W. 150  
 Goldfarb, P. 1 l 132 16th ave.,  
 Paterson, N. J.  
 Goldfarb, S. J. 2 m 79 E. Bway.  
 Goldfrank, F. 4 m 12 E. 81  
 Goldfrank, W. S. 3 c 12 E. 81  
 Goldie, W. V. 2 l 430 W. 118  
 Goldman, A. 1 m 740 E. 172

Goldman, M. I. 2 s Emerson  
Hall, 121 and Amsterdam ave.  
Goldrich, L. W. gr t 68 E. 120  
Goldsmith, E. M. 2 b 50 W. 75  
Goldsmith, O. L. 1 l 201 W. 117  
Goldsmith, T. ph 268 Monroe,  
Bklyn.  
Goldstone, K. H. 3 m  
253 East Broadway  
Goldwater, E. 2 c 355 E. 116  
Gomez, M. 3 t 327 W. 84  
Gompf, C. L. ph. Chelsea sq.  
Goodale, G. H. ph 241 W. 75  
Goodell, J. E. 2 s 3132 Bway.  
Goodlatte, R. K. R. sp c  
419 W. 118  
Goodman, E. M. 1 l  
84 Lenox ave.  
Goodman, F. V. 4 c 131 W. 103  
Goodman, L. 4 s 121 E. 101  
Goodrich, J. S. 3 s 334 W. 124  
Goodsell, W. 3 t  
1230 Amsterdam ave.  
Goodson, C. P. pl 700 Park ave.  
Goodwin, H. H. 1 s 309 W. 116  
Goodyear, K. F. 2 b 1 W. 106  
Gordon, C. T. 1 c 48 W. 84  
Gordon, D., Jr. 1 m 1 St. Felix,  
Bklyn.  
Gordon, G. 4 t 64 W. 132  
Gordon, H. A. 2 l 133 E. 119  
Gorman, J. P. 2 t 134 3d, Long  
Island City, N. Y.  
Gossett, M. E. 2 l 16 E. 87  
Gottesman, A. 1 m 278 E. 7  
Gottlieb, H. N. 3 l 158 W. 80  
Gottschall, L. p 51 E. 122  
Gould, G. C. 4 m 134 S. 6th ave.,  
Mt. Vernon, N. Y.  
Gould, J. W. gr t 246 14th, Bklyn.  
Gould, N. 1 t 1230 Amsterdam ave.  
Grabau, M. A. 1 b 527 W. 124  
Grace, C. S. 1 s 1 Hanover sq.  
Graham, C. M. 4 m 328 W. 56  
Graham, E. K. ph 138 W. 104  
Graham, H. F. 2 m 328 W. 56  
Graham, J. E. 1 m 441 W. 62  
Grandin, F. B. sp b 116 W. 76  
Granger, E. A. 3 b 106 S. 1st ave.,  
Mt. Vernon, N. Y.  
Grant, E. C. 1 t 100 New Eng-  
land ave., Summit, N. J.  
Grant, H. A. 3 s Tarrytown, N. Y.  
Grasse, W. H. 2 l 216 W. 131  
Gravenhorst, P. G. 3 c  
304 Carlton ave., Bklyn.  
Graves, J. M. 3 t 57 E. 122  
Gray, C. p 255 W. 126

Gray, J. pl 246 14th, Bklyn.  
Gray, M. G. 2 b 246 14th, Bklyn.  
Gray, M. R. 3 b 269 Union, Bklyn.  
Greeff, G. E. H. 1 c  
College Point, L. I.  
Green, C. T. 3 l 190 W. 101  
Green, E. A. 4 t 29 W. 99  
Green, E. E. 1 m 14 So. Elliott  
pl., Bklyn.  
Green, G. G. 3 s 354 W. 120  
Green, H. C. pl 365 W. 117  
Greene, F. L. gr t 7 W. 131  
Greene, P. L. 4 s 604 W. 114  
Greene, R. de C. 1 s 507 W. 112  
Greene, Van R. H. 3 c 49 W. 68  
Greenspan, S. 1 m 294 E. 3  
Greenway, J. C. 3 m  
667 Madison ave.  
Greenwood, E. M. 1 b 233 W. 138  
Greenwood, J. W. sp c  
1336 Prospect ave.  
Greever, A. S. 4 t 533 W. 124  
Gregg, J. G. sp l 141 Broadway  
Gregory, W. S. 4 m 21 W. 65  
Greif, J. 4 m 232 Rivington  
Grevatt, F. F. 4 s 291 Spring,  
West Hoboken, N. J.  
Griffin, G. F. sp s 438 W. 116  
Griffith, P. Le R. 4 s 25 W. 123  
Griggs, J. E. sp t 115 E. 84  
Griswold, F. K. 3 t  
81 Morningside ave.  
Groeschel, L. B. 1 m  
213 Alexander ave.  
Groff, M. 4 b 58 E. 83  
Gross, A. 3 l 69 E. 113  
Gross, H. 4 m 240 E. 79  
Grossman, L. J. 1 m 86 Siegel,  
Bklyn.  
Grossman, M. 2 l 14 W. 117  
Grosvenor, E. P. 2 l 414 W. 118  
Groszmann, W. H. 2 c Ft. Wash-  
ington ave. and Depot Lane  
Grout, L. E. gr t  
360 Lenox road, Bklyn.  
Gruening, C. E. 4 b 36 E. 57  
Grün, P. ph 225 River,  
Hoboken, N. J.  
Grussner, A. 3 m 275 E. 3  
Guerrlich, F. C. 1 s 533 W. 145  
Guerry, J. E. 4 t  
1230 Amsterdam ave.  
Guilbert, J. 3 t  
1230 Amsterdam ave.  
Guillaudeu, F. D. sp b 257 W. 73  
Gulbrandsen, S. 4 s  
304 Kosciusko, Bklyn.  
Gulliver, F. D. 4 m

- Gumm, H. H. 2 l 414 W. 118  
*Gunning, M. ph* 511 W. 112  
 Gunther, C. G. 4 s 414 W. 118  
 Gussinklo, W. T. 2 m 81 4th ave.  
 Gutsell, A. E. 2 l 253 W. 112  
 Gutherson, W. F. 3 m 684 E. 18, Paterson, N. J.  
 Gutman, A. S. 3 c 12 E. 80  
 Gutman, E. J. 2 s 306 W. 113  
 Guyer, C. C. gr t 417 W. 118  
 Guyer, R. sp s 358 W. 123
- Haan, H. I. 1 b* 57 W. 75  
*Haas, E. J. 3 b* 7 E. 69  
 Haas, G. C. O. ph 64 7th  
 Haas, H. C. 2 s 131 E. 47  
 Haber, W. J. 4 m  
 Haberman, J. V. 2 m 248 E. 61  
*Hackedorn, M. ph* 523 W. 123  
*Hadley, S. L. pl* 53 E. 20  
 Hageman, G. R. 2 c 139 W. 84  
 Hagen, O. R. 2 m 421 W. 57  
 Hahn, A. W. 2 s 245 W. 130  
 Hahn, R. H. 2 l 80 St. Nicholas ave.  
 Hahnel, A. F. 2 s 985 Prospect ave.  
 Haight, C. M. 1 s 490 Lenox ave.  
 Haight, L. H. 3 s 34 W. 17  
 Haines, E. J. 1 s 878 St. John's pl., Bklyn.  
 Haines, H. W. 4 s 153 W. 121  
 Hale, G. D. 3 m 70 W. 68  
*Haley, E. M. 3 t* 1230 Amsterdam ave.  
*Haliburton, M. W. sp t* 1230 Amsterdam ave.  
 Hall, A. C. pl 35 Tompkins, Orange, N. J.  
*Hall, C. D. 1 b Mt. Vernon, N. Y.*  
 Hall, E. C. 1 s 519 W. 123  
*Hall, M. F. sp b* 48 Downing, Bklyn.  
 Halliday, E. ph 81 St. James pl., Bklyn.  
 Halligan, T. C. gr t 335 2d ave.  
*Hallowell, H. 3 t* 2137 7th ave.  
 Halpin, J. J. 2 l 185 Hudson  
 Halpin, Z. P. sp c 3472 Bway.  
 Halstead, K. B. 2 l 521 W. 123  
 Hamaguchi, R. 1 l 132 W. 98  
 Hamburger, G. 2 m 64 Columbia  
 Hamill, P. J. P. 3 m 141 Mercer, Jersey City, N. J.  
 Hamilton, E. C. 3 l 345 W. 86  
 Hamilton, F. B. 2 l 1714 Madison ave.  
 Hamilton, J. G. de R. pl 457 W. 123
- Hamilton, S. W. 4 m 328 W. 56  
 Hamilton, W. F. V., Jr.; 1 m North Plainfield, N. J.  
*Hammerslough, C. p* 1215 Madison ave.  
 Hammerslough, R. L. 3 c 1215 Madison ave.  
*Hammond, B. E. sp b* 163 So. Elliott pl., Bklyn.  
*Hammond, L. E. 3 t* 1230 Amsterdam ave.  
*Hammond, M. I. 4 t* 528 W. 123  
 Hanau, H. S. 3 s 107 W. 126  
 Hance, J. C. 3 m 147 W. 63  
*Handy, E. B. 2 b* New Brighton, S. I.  
 Hanemann, E. L. 3 c 159 W. 85  
 Haner, C. 1 c 147 W. 105  
*Hanson, I. E. 3 t* 454 Manhattan ave.  
 Harbeck, C. J. 2 m 306 Lexington ave.  
 Harcourt, A. 3 c 221 W. 122  
 Hardenberg, D. S., Jr. 3 m 354 Pacific ave., Jersey City, N. J.  
 Hardenbergh, S. P. 3 l 417 W. 114  
*Hardin, M. E. ph* 324 Belleville ave., Newark, N. J.  
 Hardman, M. 1 l 415 W. 117  
 Hardy, R. 1 m 351 W. 57  
 Hare, J. J. pl 486 St. Nicholas ave.  
 Harper, H. 2 c 107 W. 106  
 Harper, J. F. pl 80 E. 55  
 Harper, R. McM. p College Point, N. Y.  
 Harran, G. P. 4 m 1420 Fifth ave.  
 Harrigan, A. H. 2 m 310 Park pl., Bklyn.  
*Harrington, G. A. t* 27 Stuyvesant pl., New Brighton, S. I.  
 Harrington, J. T. 1 m Millburn, N. J.  
 Harrington, R. V. 1 l 140 W. 64  
 Harris, B. S. 3 m 28 Prospect pl., Bklyn.  
 Harris, H. B. 1 m 39 Cleveland, Orange, N. J.  
 Harris, H. H. 3 c 170 W. 94  
 Harris, H. S. 3 t 227 W. 123  
 Harris, L. I. 2 m 25 Avenue C  
*Harrison, A. E. ph* 416 W. 118  
*Harrison, G. 4 t* Lawrence park, Bronxville, N. Y.  
 Harrison, J. C. 3 l 542 Hancock, Bklyn.



Harrison, J. S. *ph* 430 W. 118  
 Harrison, M. F. *4 b* 1230 Amsterdam ave.  
 Harrison, M. S. *2 c* 312 Henry  
 Harrison, R. C. *4 c* 488 McDonough, Bklyn.  
 Hart, A. J. *3 m* 132 W. 47  
 Hart, A. M. *1 b* 1230 Amsterdam ave.  
 Hart, F. B. *2 m* 812 Lafayette ave., Bklyn.  
 Hart, L. *1 m* 408 W. 58  
 Hart, T. Van H. *1 l* 38 So. 12,  
 Newark, N. J.  
 Hartmann, H. G. *ph* 240 West End ave.  
 Hartmann, J. *ph* 309 E. 10  
 Hartwell, E. M. *3 t* 315 W. 94  
 Harwich, M. *2 m* 226 Eldridge  
 Harwood, M. E. *ph* 525 W. 123  
 Harwood, P. H. *4 s* 517 Manhattan ave.  
 Hasell, M. C. *sp c* 126 E. 71  
 Haskell, A. *1 b* 1230 Amsterdam ave.  
 Haskell, J. *3 b* 2 St. Nicholas Ter.  
 Hasking, A. P. *4 m* 318 Mont-  
 gomery, Jersey City, N. J.  
 Hastie, J. D. *3 m* 263 W. 68  
 Hastings, H. W. *1 c* 119 E. 86  
 Hatch, H. B. *2 s* 111 W. 103  
 Hatcher, C. P. *3 l* 368 W. 116  
 Hathaway, B. *pl* 528 W. 123  
 Hatton, J. G. *p* 14 E. 109  
 Hauerbach, O. A. *ph* 522 W. 123  
 Haughwout, J. A. *3 l* 439 W. 123  
 Haviland, E. C. *gr t* 122 W. 103  
 Hawes, J. J. *3 b* 13 Leland ave.,  
 New Rochelle, N. Y.  
 Hawkesworth, J. *3 s* 102 W. 80  
 Hawks, E. M. *4 m* Tarrytown, N. Y.  
 Haworth, P. L. *pl* 524 W. 123  
 Haxby, R. V. L. *1 s* 238 E. 23  
 Haydock, A. *3 b* 501 W. 149  
 Hayes, C. H. *3 c* 956 Ogden ave.  
 Hayes, E. B. *3 t* 10 E. 43  
 Hayes, E. F. *2 s* 318 E. 15  
 Hayes, E. J. *4 t* 20 Central ave.,  
 Tompkinsville, N. Y.  
 Hayley, J. A. *sp m* 163 Coles,  
 Jersey City, N. J.  
 Haynes, J. E. *1 b* Richmond Hill, N. Y.  
 Haynes, R. *pl* 700 Park ave.  
 Haynes, R. S. *4 m* 318 W. 57  
 Hays, A. G. *1 l* 264 W. 89

Hays, H. M. *2 m* 264 W. 89  
 Hazay, M. *4 m* 314 E. 3  
 Hazzard, H. B. *1 l* 194 N. 17, East Orange, N. J.  
 Head, H. W. *2 l* 419 W. 118  
 Heaton, J. P. *2 c*  
 Heatwole, C. J. *t* 533 W. 124  
 1025 Bushwick ave., Bklyn.  
 Hecht, F. *ph* Sussman ave.,  
 Jamaica, N. Y.  
 Hecker, J. McK. *1 c* 44 W. 37  
 Hedges, A. C. *4 t* 1230 Amsterdam ave.  
 Hedges, B. B. *4 t* 156 W. 81  
 Hedinger, J. H. B. *3 c* 36 W. 126  
 Hedley, B. *3 t*  
 Heidenheimer, A. B. *2 b* 61 E. 72  
 Heiman, H. *1 c* 56 W. 120  
 Heimann, W. J. *2 m* 315 W. 105  
 Hein, T. L. *2 m* 6 W. 87  
 Heine, J. *2 m* 55 Second  
 Helgeson, K. A. *4 m* 145 W. 64  
 Heller, C. *3 s* 12 E. 77  
 Hellman, A. M. *2 m* 15 E. 92  
 Hellmuth, L. *ph* 1230 Amsterdam ave.  
 Hempstead, L. *pl* 1230 Amsterdam ave.  
 Henderson, A. C. *4 m* 925 West End ave.  
 Henderson, N. *sp b* 27 E. 65  
 Hendricks, E. *2 b* 18 E. 80  
 Hendricks, J. A. *pl* 700 Park  
 ave.  
 Hendrickson, C. *gr t* 306 W. 94  
 Hendrickson, C. LeR. *4 c* 430 W. 118  
 Hendrickson, J. F., Jr. *4 s* 627 W. 115  
 Hendrickson, W. H. *4 s* 43 Grove, White Plains, N. Y.  
 Henes, L. G. *4 s* 128 E 93  
 Henkels, M. *1 s*  
 Hennen, W. D. *3 m* New York Athletic Club  
 Henry, F. *p* 1230 Amsterdam ave.  
 Henry, M. W. *1 m* 56 Clark,  
 Bklyn.  
 Henschel, L. K. *1 m* 1239 Washington ave.  
 Henson, C. C. *4 t* 210 W. 123  
 Henssler, F. M. *1 m* 368 Mott ave.  
 Herbert, LeR. B. *pl* 145 E. 51  
 Herché, H. H. *sp l* 215 W. 104  
 Herlitzka, L. *4 m* 245 E. 13  
 Hershheim, C. *ph* 1239 Madison ave.

- Herrmann, S. 1 b 147 W. 103  
 Herrmann, W. M. 1 c 7½ Jane  
 Hershey, J. S. 2 l 519 W. 123  
 Herts, R. L. sp b  
     *Hotel Marie Antoinette*  
 Hertz, H. L. 2 s 422 E. 57  
 Hervey, A. M. 3 m 58 W. 57  
 Herz, H. 2 l 232 W. 25  
 Herzfeld, E. G. 4 b 147 W. 86  
 Hess, A. 4 t 293 Lenox ave.  
 Hess, E. 1 s 322 E. 24  
 Heuser, C. F. 2 c 161 W. 97  
 Hewitt, M. L. pl 280 Garside,  
     *Newark, N. J.*  
 Heyman, B. 2 b 134 W. 131  
 Heyman, H. K. 4 c 130 W. 131  
 Heyman, W. 2 s 148 Newark  
     ave., Jersey City, N. J.  
 Hibler, G. H. 3 m 144 W. 65  
 Hickox, I. M. sp t  
     1230 Amsterdam ave.  
 Hicks, L. M. 3 t 51 E. 61  
 Higbie, H. H. 3 s 223 W. 105  
 Higbie, J. R. 2 c 250 W. 94  
 Higgins, S. L. 4 m  
     *Roselle Park, N. J.*  
 Hill, A. L. 1 b 335 W. 84  
 Hill, E. 3 c 633 W. 142  
 Hill, F. A. 3 t 74 W. 124  
 Hill, H. N. 3 b 633 W. 142  
 Hill, H. W. 1 s 457 W. 123  
 Hill, P. S. 2 l 412 W. 115  
 Hillenbrand, F. L. 1 m 119 W. 119  
 Hillhouse, J. Ten E. 2 s 105 Hud-  
     son Ter., Yonkers, N.Y.  
 Hills, W. F. 4 c 321 W. 116  
 Hinckley, F. E. pl 419 W. 118  
 Hincks, R. B. 1 l 240 W. 114  
 Hipple, J. A. 2 l 519 W. 123  
 Hirsch, G. J. 1 c 1140 Madison  
     ave.  
 Hirsch, H. 2 l 14 Morningside ave.  
 Hirsch, S. H. 3 b  
     1140 Madison ave.  
 Hirschberg, C. N. 2 s 177 W. 95  
 Hirschberg, S. 1 c Eldorado,  
     91st and 8th ave.  
 Hirsdansky, S. 1 m 10 E. 190  
 Hirshbach, H. 3 b 154 W. 75  
 Hirshida, S. pl 41 E. 13  
 Hitlin, A. 2 m 72 McKibben,  
     Bklyn.  
 Hix, M. 4 t 2102 Amsterdam ave.  
 Hixson, M. B. pl  
     1175 Madison ave.  
 Hoadley, H. ph 140 W. 13  
 Hochheimer, H. A. 2 b  
     1311 Madison ave.  
 Hochleitner, L. 4 t 520 W. 123  
 Hochsprung, G. W. 2 s  
     111 Patchen ave., Bklyn.  
 Hock, C. T. ph 31 New,  
     Bloomfield, N. J.  
 Hoffman, A. 4 c 217 Hewes,  
     Bklyn.  
 Hoffman, E. 3 l 554 W. 150  
 Hoffman, E. C. t 181 W. 73  
 Hoffman, M. 1 l 49 W. 95  
 Hoffman, M. E. 2 b 356 Henry,  
     Bklyn.  
 Hoffmann, H. W. ph  
     306 Rodney, Bklyn.  
 Hoguet, R. C. 1 l  
     141st and Hudson River  
 Hohnholz, M. E. 1 m  
     68 Edgecomb ave.  
 Holbrook, M. G. sp b 16 W. 130  
 Holcomb, H. van V. 4 m  
     107 W. 64  
 Holden, C. A. 4 s 470 E. 177  
 Holden, E. S. 1 b  
     1230 Amsterdam ave.  
 Holden, L. C. 1 s 66 W. 83  
 Holdridge, W. H. 4 m 465 W. 57  
 Holland, H. S. 2 m 473 W. 152  
 Holliday, E. P. 1 s  
     45 Brevoort pl., Bklyn.  
 Hollister, S. T. 1 c 61 E. 91  
 Hollmann, F. W. 2 s  
     1269 Madison ave.  
 Holmes, C. A. 3 m  
     1043 Boston road  
 Holmes, D. A. 3 s 203 W. 79  
 Holmes, F. D. 4 c  
     512 Manhattan ave.  
 Holt, C. 4 s  
     P. O. Box 3, Station "J"  
 Holt, C. J. 1 m 424 W. 57  
 Holt, E. 3 t 1230 Amsterdam ave.  
 Holt, S. A. 4 b 415 W. 118  
 Holthausen, W. F. 3 m 136 Kent,  
     Bklyn.  
 Holzman, A. C. 1 m  
     937 Bushwick ave., Bklyn.  
 Homans, S. S. 4 t 181 W. 79  
 Honnell, M. A. sp t 153 E. ave.,  
     Long Island City  
 Hood, E. C. p 519 W. 123  
 Hood, F. M. 3 b 510 W. 124  
 Hood, M. S. t  
     1230 Amsterdam ave.  
 Hood, P. G. 3 m 699½ High,  
     Newark, N. J.  
 Hooker, H. L. 3 m 50 W. 89  
 Hooper, G. H., Jr. 2 s 141 W. 47  
 Hooper, P. M. 1 s 59 W. 62

Hope, I. M. 1 b 130 W. 123  
 Hopkins, N. L. ph 1230 Amsterdam ave.  
 Horcasitas, A., Jr. 1 s 162 W. 123  
 Horn, E. 4 b 95 Greenwood ave.,  
 E. Orange, N. J.  
 Horowitz, B. 3 m 1570 Washington ave.  
 Horowitz, I. 4 m 243 E. 112  
 Horowitz, P. 3 m 17 W. 112  
 Horwitz, H. B. 3 s 530 W. 123  
 Hosford, L. P. 1 s 529 2d, Bklyn.  
 Houchin, S. E. 2 t Rahway, N. J.  
 Houck, G., Jr. sp l 157 W. 81  
 House, E. A. 3 t 35 W. 82  
 House, H. A. 2 s 158 W. 81  
 House, H. D. p E. 201,  
 Bedford Park  
 Houston, M. H. ph 200 W. 106  
 Houston, O. R. 3 c 25 Mt. Morris Park West  
 Howard, C. B. ph 1230 Amsterdam ave.  
 Howard, C. M. 4 b 415 W. 118  
 Howard, K. D. ph 417 W. 118  
 Howard, L. A. C. 1 b 1230 Amsterdam ave.  
 Howe, R. B. 4 b 100 W. 76  
 Howell, A. S. 1 t 1230 Amsterdam ave.  
 Howell, E. T. D. 1 m 254 W. 129  
 Howell, J. J. 3 s 210 W. 122  
 Howes, H. W. 1 l 355 W. 145  
 Howland, DeR. 1 m 105 W. 112  
 Howland, E. A. 3 t 1230 Amsterdam ave.  
 Hoyt, J. F. 3 b 17 E. 95  
 Hoyt, J. R. 1 s 9 W. 32  
 Hoyt, R. P., Jr. sp c 67 W. 73  
 Hoyt, S. F. 2 b 17 E. 95  
 Hubbard, F. E. 3 b 179 W. 76  
 Hubbard, G. A. S. B. p 225 E. 23  
 Hubbard, M. A. 3 t 87 Centre ave.,  
 New Rochelle, N. Y.  
 Hubbard, R. A. 2 c 138 W. 74  
 Hubbard, S. G. 3 t 536 W. 125  
 Hudson, H. sp s 1 E. 76  
 Huff, E. P. 4 m 219 E. 27  
 Huffman, E. B. 1 l 132 W. 79  
 Huffman, O. von 4 m 132 W. 79  
 Hughan, E. M. 3 b 663 Quincy, Bklyn.  
 Hughes, D. E. 3 c 519 W. 123  
 Hughes, G. 1 s 306 E. 14  
 Hughes, G. E. ph 41 E. 69  
 Hughes, M. M. 3 t 204 W. 83  
 Hughes, P. ph 602 W. 147

Hulbert, W. R. 3 s 420 W. 20  
 Hulett, M. 3 t 1230 Amsterdam ave.  
 Hull, A. 3 m 8736 17th ave.,  
 Bklyn.  
 Hull, A. B. 3 s 53 W. 127  
 Hull, E. T. 3 m 15 W. 63  
 Hull, F. I. 2 l 105 Franklin ave.,  
 Mt. Vernon, N. Y.  
 Hummel, G. F. ph 89 Pineapple, Bklyn.  
 Humphrey, F. L. 2 s 524 W. 123  
 Humphreys, F. B. 4 m 146 E. 37  
 Hunt, C. S. 2 m 12 W. 60  
 Hunt, F. B. 2 l 73 E. 130  
 Hunt, J. J. 1 m 796 Ave. D.,  
 Bayonne, N. J.  
 Hunt, M. M. 3 b 115 Gifford  
 ave., Jersey City, N. J.  
 Hunter, J. B. 3 t 1230 Amsterdam ave.  
 Hunter, T. P. pl 700 Park ave.  
 Huntington, R. 3 t 1230 Amsterdam ave.  
 Huntington, S. D. gr t 1230 Amsterdam ave.  
 Huntting, J. S. 3 t 1230 Amsterdam ave.  
 Hurlburt, M. F. p 18 W. 103  
 Hurlbut, S. A. ph 554 W. 142  
 Hurley, M. L. sp c 234 W. 114  
 Hurley, T. L. 3 c 426 W. 160  
 Hussakof, L. p 111 Division  
 Hussey, F. V. 3 m 70 W. 68  
 Huston, H. W. 1 m 144 W. 65  
 Hutcheson, A. C. 2 m 318 W. 65  
 Hutchinson, E. J. 2 b 287 Carroll,  
 Bklyn.  
 Hutchinson, R. M., Jr. 2 m 309 W. 101  
 Hutter, A. 2 l 352 E. 74  
 Huttman, M. A. 3 t 278 Clinton  
 ave., Bklyn.  
 Hutton, A. L. 2 m 319 W. 107  
 Hutton, M. S. 1 s 319 W. 107  
 Huyck, R. P. m 335 W. 58  
 Hyams, J. A. 2 m 409 E. 118  
 Hyde, H. St. J. p 210 E. 18  
 Hyman, A. 2 m 124 E. 64  
 Hyman, D. E. 2 m 113 Ludlow  
 Infante, J. M. 1 m 80 W. 114  
 Intemann, H. C. 1 l 848 Union  
 ave.  
 Irvine, F. B. 4 s 538 W. 114  
 Irving, P. 4 m 104 Madison ave.  
 Isaacs, S. 1 c 115 Columbia

- Isaacs, S. M. 4 c 110 E. 73  
 Iselin, L. 3 c 3 W. 52  
 Ishikawa, Y. pl 105 E. 15  
 Iskowitz, H. 2 m 66 2d ave.  
 Isles, M. M. sp t 416 W. 124  
 Ison, V. S. 3 m 143 W. 61  
 Ittelson, M. 1 m 76 E. 101  
 Ittleman, G. H. 3 l 92 Moore, Bklyn.
- Jaches, L. 4 m 152 Henry  
 Jackson, A. F. 2 m 342 W. 58  
 Jackson, J. C. 3 l 216 E. 68  
 Jackson, J. G. 3 l 116th and Riverside Drive  
 Jackson, K. ph 523 W. 123  
 Jackson, R. P. sp c 432 St. Nicholas ave.  
 Jacobs, L. 3 m 26 E. 118  
 Jacobs, S. 2 s 63 W. 95  
 Jacobs, W. A. 3 c 2783 Bway.  
 Jacobson, H. B. 4 s 216 W. 108  
 Jacobson, S. O. 3 s 123 E. 82  
 Jacobstein, M. 3 c 1642 Madison ave.  
 Jacoby, H. E. 4 s 195 Edgecomb ave.  
 Jaffin, A. E. 2 m 299 Railroad ave., Jersey City, N. J.  
 James, B. C. 1 b 1230 Amsterdam ave.  
 Jameson, C. B. gr t 47 W. 119  
 Jameson, J. W. 2 m 121 W. 71  
 Jané, A. C. 1 m 36 W. 61  
 Jarcho, I. 3 s 1326 Park ave.  
 Jarcho, J. 3 m 314 W. 145  
 Jarmulowsky, A. 1 l 102 E. 60  
 Farvie, M. S. gr. t 1230 Amsterdam ave.  
 Jeffrey, S. L. 3 m 203 W. 103  
 Jenkins, G. E. 4 t 145 W. 2d, Mt. Vernon, N. Y.  
 Jenkins, J. C. 1 s 173 W. 85  
 Jenks, E., Jr. gr t Fordham Heights, N. Y.  
 Jenks, M. L. 4 c 329 W. 115  
 Jessup, E. C. 3 t 27 W. 8  
 Jetter, C. H. 3 l 306 W. 112  
 Jochum, H. L. 3 s 465 E. 57  
 Joelson, M. J. 1 m Paterson, N. J.  
 Johnson, A. M. 1 s 519 W. 123  
 Johnson, A. R. ph 168 Hancock, Bklyn.  
 Johnson, D. W. p 418 W. 124  
 Johnson, E. S. ph 607 5th ave.  
 Johnson, F. sp s 421 W. 117  
 Johnson, F. A. 1 m 40 W. 61  
 Johnson, F. D. 1 s 536 W. 114
- Johnson, H. T. pl 525 W. 123  
 Johnson, J. A. sp l 525 W. 123  
 Johnson, J. H. 1 l 321 W. 118  
 Johnson, M. A. 4 b 356 W. 145  
 Johnson, R. McL. 2 s 540 Clifton ave., Newark, N. J.  
 Johnson, R. P. 2 s 499 W. 130  
 Johnson, T. B. 3 l 414 W. 118  
 Johnston, E. M. 1 s 70 W. 102  
 Johnston, M. 1 b 128 W. 82  
 Johnston, M. E. 2 m 346 W. 58  
 Johnston, R. 3 b 1230 Amsterdam ave.  
 Johnston, S. A. sp m 31 W. 61  
 Joly, C. L. 1 s 315 W. 45  
 Jones, E. B. 4 b 43 Morton  
 Jones, M. sp b 237 E. 17  
 Jones, M. M. sp b 419 W. 118  
 Jones, R. 2 s 519 W. 123  
 Jones, R. C. 2 s 244 W. 99  
 Jones, T. M. 2 s 333 W. 87  
 Jones, W. ph 528 W. 123  
 Jones, W. C. pl 50 E. 70  
 Jorin, J. 1 s 153 W. 84  
 Joseph, M. 4 t 318 W. 13  
 Joseph, M. sp t 133 W. 80  
 Josephi, R. 2 s 28 W. 95  
 Josephs, I. S. 2 c 111 Lenox ave.  
 Josephthal, H. E. ph 30 E. 62  
 Jouard, F. L. 3 c 337 E. 68  
 Joyce, E. R. 2 m 233 E. 86  
 Judd, E. K. 4 s 522 W. 123  
 Julihn, C. E. 2 s 519 W. 123
- Kaempffer, L. G. 2 m 300 Central Park West  
 Kahn, A. C. 2 l 110 W. 46  
 Kahn, A. L. 3 c 10 W. 75  
 Kahn, E. J. 4 c 50 E. 83  
 Kahn, M. 1 c 27 St. Mark's pl.  
 Kahrs, J. D. 2 l 1592 Lexington ave.  
 Kaiser, G. H. 1 c 214 W. 92  
 Kaliski, D. J. 2 m 1977 2d ave.  
 Kalisky, A. sp l 478 7th ave.  
 Kane, H. A. 4 t 167 Congress, Bklyn.  
 Kanolt, C. W. p 412 W. 115  
 Kanski, R. P. 1 s 704 E. 137  
 Kanter, J. B. 2 m 43 Eldridge  
 Kaplan, C. 2 b 98 E. Bway.  
 Kaplan, M. M. ph 328 E. 52  
 Kasugai, J. pl 50 Howard  
 Katz, D. 3 m 38 W. 116  
 Kaufman, A. 1 s 256 W. 29  
 Kaufman, H. H. 2 l 116 W. 80  
 Kaufman, I. 1 m 682 E. 149  
 Kaufmann, C. 1 l 210 E. 68

Kaufmann, S. W. 1 l 25 E. 76  
 Kaunitz, J. 2 m 408 W. 58  
 Kaye, B. M. 2 c 320 E. 124  
 Kayser, W. D. 4 s  
 1063 Lexington ave.  
 Keating, E. sp b  
 1161 Amsterdam ave.  
 Keating, H. 2 s  
 1161 Amsterdam ave.  
 Keating, M. 3 t 523 W. 123  
 Kebler, L. 3 s Bronxville, N. Y.  
 Kedian, W. M. 1 s 307 E. 30  
 Keegan, T. D. 3 m 156 Clinton  
 ave., Jersey City, N. J.  
 Keeler, F. Y. 4 c 147 W. 91  
 Keeler, G. B. 3 l 386 Monroe,  
 Bklyn.  
 Keeler, H. A. 4 c 782 6th ave.  
 Keep, A. B. pl 519 W. 123  
 Keil, C. E. 3 t 402 E. 79  
 Keithley, R. H. 3 s 167 W. 21  
 Kelleher, J. F. 1 m 264 Varick,  
 Jersey City, N. J.  
 Keller, J. A. 2 m 343 W. 121  
 Keller, S. C. 2 m 429 High,  
 Newark, N. J.  
 Kelley, A. R. 2 t  
 1230 Amsterdam ave.  
 Kelley, H. E. pl 613 Park ave.,  
 E. Orange, N. J.  
 Kelley, R. H. sp c  
 Tuckahoe, N. Y.  
 Kellogg, F. S. 2 l 107 John  
 Kellogg, H. K. W. 4 m  
 127 W. 61  
 Kellogg, J. B. 4 s 521 W. 123  
 Kellogg, J. Y. C. 1 l 604 W. 114  
 Kellogg, L. O. 1 s 606 W. 113  
 Kellogg, P. U. pl 105 E. 22  
 Kendler, J. 1 c 221 E. 7  
 Kennan, R. A. 3 l 519 W. 123  
 Kennedy, A. 4 t  
 1230 Amsterdam ave.  
 Kennedy, A. J. 2 b 361 4th, Bklyn.  
 Kennedy, D. R., Jr. pl  
 229 W. 101  
 Kennedy, M. S. ph 124 W. 126  
 Kenney, A. L. 1 l 361 W. 116  
 Kenney, F. J. sp s 214 E. 11  
 Kent, J. M. 4 m 70 W. 68  
 Kent, R. 3 s 430 W. 118  
 Kenyon, H. S. 4 m 339 W. 55  
 Kernan, J. D., Jr. 4 m 307 W. 102  
 Kerr, A. T. 3 c 517 Manhattan  
 ave.  
 Kerr, C. D. 2 l Englewood, N. J.  
 Kessel, L. 4 m Hotel Savoy  
 Keune, H. 2 m 70 W. 120

Keys, E. C. 1 s 137 W. 132  
 Kibbe, E. J. 1 m 310 W. 56  
 Kidder, S. J. 4 s 373 W. 123  
 Kiernan, C. A. 1 l Fordham, N. Y.  
 Kilbourne, C. G. 1 s 3 W. 87  
 Kilian, T. P. 1 s 421 W. 144  
 Kilroe, E. P. c 166 Grand,  
 Jersey City, N. J.  
 Kimball, C. C. 3 m 110 E. 29  
 Kimball, P. W. 1 m 74th and  
 Central Park West  
 Kind, J. L. ph 419 W. 118  
 King, A. E. gr t 1246 Pacific,  
 Bklyn.  
 King, C. A. 2 s 22 E. 129  
 King, H. F. 1 s 29 So. Walnut,  
 E. Orange, N. J.  
 King, H. L. 4 b 360 W. 117  
 King, J. J. 1 s 1038 Park ave.  
 Kingsbury, I. W. 4 m 318 W. 57  
 Kingsbury, S. M. pl  
 1230 Amsterdam ave.  
 Kingsley, C. D. pl 135 W. 12  
 Kingsley, R. 1 m  
 441 West End ave.  
 Kirby, C. M. 1 s 357 W. 115  
 Kirchwey, K. W. 1 c 605 W. 113  
 Kirk, W. E. ph 524 W. 123  
 Kirkpatrick, F. F. 2 l 235 W. 103  
 Klaber, E. H. 1 s  
 389 Manhattan ave.  
 Klaber, W. 2 c  
 389 Manhattan ave.  
 Kleeberg, G. S. P. 2 c  
 3 Riverside Drive  
 Klein, D. ph 135 Goerck  
 Klein, E. S. 2 s 541 W. 124  
 Klein, F. 2 c 206 E. 30  
 Klenke, J. H., Jr. 1 s  
 1165 Park ave.  
 Kline, H. J. 1 s 635 E. 9  
 Knapp, Mrs. E. S. 4 t  
 Yonkers, N. Y.  
 Knapp, J. R. 3 l 62 W. 51  
 Knapp, T. J. gr t Arlington, N. J.  
 Knauff, G. 3 c 176 S. Parsons  
 ave., Flushing, N. Y.  
 Knemeyer, W. H. 1 l  
 4th ave., cor. 67th, Bklyn.  
 Kniffin, L. M. 1 s 9 Ryle ave.,  
 Paterson, N. J.  
 Knight, A. S., gr t  
 32 Morningside ave.  
 Knight, C. C. 1 s 221 W. 49  
 Knight, J. L. 1 s 221 W. 49  
 Knipe, J. B. 4 m  
 182 East End ave.  
 Knipe, W. H. W. 4 m 353 W. 24

- Knoblauch, G. W. 3 s 416 W. 118  
 Knox, E. E. *sp b*  
     210 10th, Hoboken, N. J.  
 Knox, E. M. 1 b 256 W. 123  
 Knox, J. 3 c 244 W. 106  
 Knox, R. C. *sp c* 700 Park ave.  
 Knox, T. H. *gr t* 370 W. 120  
 Kobbé, H. 1 c  
     New Brighton, S. I.  
 Kobler, E. W. 1 m 39 W. 92  
 Koempel, J. A. 1 m 251 E. 86  
 Koenig, N. A. 4 c 80 W. 12  
 Koerner, W. K. 3 l 519 W. 123  
 Koff, J. J. 2 m 76 E. 93  
 Kohler, L. F. 2 s 553 Hancock,  
     Bklyn.  
 Kohn, A. H. 3 l 334 W. 72  
 Kohn, B. 2 m 20 Stanton  
 Kohn, L. 4 b 10 E. 60  
 Kohn, W. T. 3 l 18 E. 95  
 Kohut, E. 1 b 44 W. 58  
 Kouwenhoven, H. W. 1 l  
     Lincoln ave., Jamaica, N. Y.  
 Korn, F. *sp t* 45 E. 74  
 Kottman, W. A. *pl* 523 W. 44  
 Kovarsky, A. *ph* 217 Forsyth  
 Kraetzer, E. R. 1 c 267 W. 139  
 Kramer, J. J. 3 l  
     1714 Madison ave.  
 Krans, H. S. *ph* 29 W. 84  
 Kratzenstein, R. *sp t* 7 E. 94  
 Krause, J. J. *sp l* 419 W. 118  
 Krauss, F. I. 1 c 12 Washington  
     pl., E. Orange, N. J.  
 Kraut, M. 2 s 1361 Madison ave.  
 Kreshover, J. S. 3 m 179 Bowery  
 Kress, O. 1 s 206 W. 86  
 Kreuder, H. E. 3 c 62 W. 97  
 Kreuger, M. *sp t*  
     1230 Amsterdam ave.  
 Kroeber, E. 4 b  
     849 West End ave.  
 Kropff, A. H. 1 c 136 W. 119  
 Krumwiede, C., Jr. 2 m 57 W. 84  
 Krusa, H. B. 3 c  
     725 Driggs ave., Bklyn.  
 Kruse, A. 1  
     123 Park ave.,  
     Hoboken, N. J.  
 Krusen, A. *sp t*  
     1230 Amsterdam ave.  
 Kudlich, H. E. 3 m 153 W. 21  
 Kurpick, C. F. 2 m  
     St. Francis Hospital  
 Kurzenknahl, F. E. 1 s 116 W. 63  
 Kutscher, M. 2 m 100 Broad,  
     Stapleton, S. I.  
 Kydd, I. E. 4 t 203 W. 102
- Labouisse, S. S. 4 s 13 W. 8  
 Lachmund, M. B. 3 t  
     1230 Amsterdam ave.  
 Lahnstein, C. M. 2 c  
     1076 Lexington ave.  
 Laing, C. B. 4 t  
     1230 Amsterdam ave.  
 Lamont, J. R. 1 c 13d pl., Bklyn.  
 Landauer, L. L. 3 c 541 W. 124  
 Landers, W. H. 4 s 614 W. 113  
 Landesman, I. L. 1 m 309 E. 4  
 Landers, M. H. 1 s  
 Landsman, I. J. 1 m 167 E. 102  
 Lane, C. J. *gr t* 301 W. 129  
 Lane, C. J. 4 s 129 Rich ave.,  
     Mt. Vernon, N. Y.  
 Lang, D. *ph* 700 Park ave.  
 Lang, O., Jr. 3 m 249 W. 55  
 Langdon, A. *sp t* 315 W. 119  
 Langdon, S. H. *ph* 41 E. 69  
 Lange, M. R. 3 c 48 E. 63  
 Langlés, H. J. 1 s 115th and  
     Boulevard  
 Langmuir, I. 4 s 185 W. 135  
 Larkin, A. G. 1 m 363 W. 19  
 Larkin, M. J. *ph* St. Joseph's  
     Seminary, Dunwoodie, N. Y.  
 La Roche, P. B., Jr. 1 l  
     704 Madison ave.  
 Lasher, F. H. 1 m Poughkeepsie,  
     N. Y.  
 Latham, M. E. 4 b 417 W. 148  
 Lathrop, H. W. 3 m 143 W. 61  
 Lathrope, G. H. 3 m 317 W. 58  
 Latta, J. B. 2 m 119 W. 61  
 Lauder, M. A. *ph*  
     594 St. Mark's ave., Bklyn.  
 Laughlin, H. C. *ph* 530 W. 123  
 Lauterstein, L. 3 l 1871 7th ave.  
 Law, C. T. 3 s 354 W. 120  
 Lawlor, M. J. 1 m 102 W. 64  
 Lawrence, C. 1 l 432 W. 124  
 Lawrie, H. N. 1 s 544 W. 113  
 Lawson, C. F. 3 c 248 W. 112  
 Lawson, W. P. 3 c  
     Montclair, N. J.  
 Lawton, G. E. *ph*  
     144 Clinton, Bklyn.  
 Lawton, M. F. 3 c  
     224 Willoughby ave., Bklyn.  
 Lawyer, F. D. *ph* 50 W. 17  
 Lawyer, L. R. *gr t* 169 W. 140  
 Lazinsk, A. 2 s 129 E. 76  
 Lea, L. 3 l 500 W. 121  
 Lea, O., Jr. 3 l 500 W. 121  
 Leavenworth, G. *p* 541 W. 124  
 Leavitt, E. J. 3 m 461 W. 164  
 Lebowitz, E. F. 1 m 2307 2d ave.

Lebowitz, W. *1 s* 185 Second  
 Le Comte, J. R. *4 m* 213 W. 130  
 Lederer, A. M. *2 l* 430 W. 118  
 Lederer, M. *1 m* 164 Gwinnett,  
 Bklyn.  
 Ledoux, L. V. *p* 39 W. 50  
 Lee, H. *1 c* 247 W. 104  
 Lee, J. D. *2 l* 247 W. 104  
 Lee, M. D. *2 b* 247 W. 104  
 Lee, S. G. *sp m* 31 Halsted,  
 E. Orange, N. J.  
 Lee, T. S. *pl* 50 E. 70  
 Lee, W. R., Jr. *1 m* 322 W. 55  
 Leers, H. *3 b* 401 Straight,  
 Paterson, N. J.  
 LeFevre, F. E. *1 l* 55 W. 92  
 Lefferts, B. *4 c* 308 Lexington ave.  
 Leggett, N. B. *3 m* 143 W. 61  
 Lehman, E. H. *ph* 416 W. 118  
 Leiter, H. L. *4 m* 123 W. 63  
 Leland, A. P. *1 b* 1230 Amsterdam ave.  
 Leland, F. *sp b* 943 Lexington ave.  
 Lennox, P. M. *4 m* 360 W. 57  
 Lent, M. F. *4 m* 155 W. 61  
 Leonard, A. J. *4 m* 251 E. 84  
 Leonard, H. G. *1 m* 436 Cherry,  
 Elizabeth, N. J.  
 Leonard, W. E. *ph* 517 W. 124  
 Le Roy, R. *2 c* 28 7th ave.  
 Lesem, W. W. *4 m* Hotel St. Lorenz  
 Lesinsky, L. *3 l* 1109 Madison ave.  
 Leslie, C. T. *2 m* 261 Greene ave.  
 Bklyn.  
 Lester, C. F. *4 t* 1230 Amsterdam ave.  
 Levant, H. L. *2 m* 642 E. 157  
 Levene, S. A. *1 m* 250 Division  
 Leventritt, L. L. *1 c* 34 W. 78  
 Levin, C. *2 m* 165 Broome  
 Levine, B. M. *1 m* 1567 1st ave.  
 Levis, R. P. *3 l* 259 W. 116  
 Levitt, B. A. *4 s* 637 St. Ann's ave.  
 Levitt, E. *ph* 736 Lexington ave.  
 Levy, B. M. *2 c* 36 E. Bway.  
 Levy, E. L. *2 b* 122 E. 76  
 Levy, G. *3 b* Hotel Grenoble  
 Levy, H. *2 m* 408 W. 58  
 Levy, J. *3 m* 333 E. 58  
 Levy, J. *1 l* 28 W. 115  
 Levy, J. G. *4 m* 231 Cumberland,  
 Bklyn.  
 Levy, S. S. *3 l* 101 W. 54  
 Lewin, F. S. *2 m* 47 Jefferson ave., Bklyn.

Lewin, J. C. *1 s* 101 N. Main,  
 Port Chester, N. Y.  
 Lewine, R. S. *3 s* 16 E. 120  
 Lewinson, L. J. *3 s* 129 E. 95  
 Lewis, A. B. *ph* 500 W. 131  
 Lewis, A. H. *pl* Greenwich,  
 Conn.  
 Lewis, B. L. *1 b* 331 So. 1st ave.,  
 Mt. Vernon, N. Y.  
 Lewis, G. L. *4 t* 356 W. 118  
 Lewis, H. B. *1 l* 304 W. 115  
 Lewis, H. G. *2 s* 40 E. 29  
 Lewis, H. T. *1 m* Ashaway, R. I.  
 Lewis, I. E. *3 b* 206 W. 103  
 Lewis, M. E. *2 m* 346 W. 58  
 Lewis, M. W. *1 l* 430 W. 118  
 Lewis, R. C. *2 c* 310 W. 107  
 Lewisohn, J. A. *2 c* 9 W. 57  
 Lewisohn, L. *ph* 368 W. 118  
 Lewy, H. M. *2 l* 144 W. 93  
 Lexow, C. *3 b* 501 W. 120  
 Lichtenwaller, E. G. *ph* 939 8th ave.  
 Lichten, D. E. *3 b* 1211 Madison ave.  
 Lichtenberg, J. C. A. A. *1 s* 60 W. 129  
 Lichtig, A. *1 l* 373 W. 116  
 Lieb, C. C. *1 m* 317 W. 57  
 Lieb, H. *2 l* 228 Clinton  
 Liesenfeld, A. I. *1 m* 238 Second  
 Lilienthal, F. *1 b* 60 W. 129  
 Lillard, O. W. *4 s* 12 W. 65  
 Lindeman, H. E. *1 m* 114 E. 64  
 Lindeman, M. *4 s* 343 E. 15  
 Linderberger, J. H. *2 l* 417 W. 118  
 Lindheim, N. R. *3 l* 305 W. 86  
 Lindsay, G. *2 m* 207 W. 81  
 Lindsay, J. W. *3 c* 298 Bway.  
 Lindsley, F. W. *sp c* 29 Clinton  
 ave., Jersey City, N. J.  
 Lindsley, G. L. *1 s* 68 Cleveland,  
 Orange, N. J.  
 Linsly, W. W. *sp s* 29 Irving pl.  
 Linton, A. *3 t* 1230 Amsterdam ave.  
 Linton, L. *sp t* 1230 Amsterdam ave.  
 Lippe, V. S. *2 l* 2 Beekman pl.  
 Lippmann, F. B. *1 c* 113 E. 81  
 Lipschutz, J. M. *2 m* 204 E. Bway.  
 Littell, E. G. *3 m* 635 Park ave.  
 Littell, R. J. *1 l* 34 Elm, Summit, N. J.  
 Lobo, A. *3 s* 237 W. 71  
 Loch, J. W. *ph* 59 Schermerhorn,  
 Bklyn.  
 Lock, M. *2 b* 1230 Amsterdam ave.

- Lockman, F. I. 3 *l* 140 W. 73  
 Lockwood, F. W. 1 *s* 66 Summit ave., Jersey City  
 Lockwood, H. R. 1 *s* 8 W. 76  
 Lockwood, S. P. *ph* 584 N. Bway, Yonkers, N. Y.  
 Loder, E. H. 4 *s* 461 So. Main, Port Chester, N. Y.  
 Loder, I. H. 1 *s* 461 So. Main, Port Chester, N. Y.  
 Loening, R. R. 3 *c* 152 W. 76  
 Loew, C. E. 1 *l* Murray Hill Hotel  
 Loew, F. *sp b* 10 Amsterdam ave.  
 Loewenthal, C. H. 1 *c* 265 Central Park West  
 Lo Forte, L. 1 *m* 244 W. 99  
 Loftus, M. M. 4 *t* 157 W. 61  
 Logan, H. 3 *l* 112 Riverside Drive  
 Lohman, W. H. 3 *m* 220 W. 69  
 London, J. F. 4 *t* 206 Canal  
 London, M. 2 *c* 64 W. 115  
 Long, J. McM. 3 *m* 325 W. 58  
 Long, M. C. *sp c* Hotel Empire  
 Long, W. B. 1 *c* 408 W. 146  
 Longacre, G. F. *gr t* 238 W. 73  
 Longwell, R. A. 1 *s* 413 W. 117  
 Lonsdale, W. J. *pl* 700 Park ave.  
 Loomis, J. H. 3 *b* 1230 Amsterdam ave.  
 Loomis, L. R. *pl* 1230 Amsterdam ave.  
 Lorber, H. 4 *m* 159 Suffolk  
 Lord, W. O. 4 *m*  
 Lorenzo, F. A. 3 *m* 417 W. 117  
 Loske, L. D. *ph* Stamford, Conn.  
 Loudon, A. M. 4 *s* 544 W. 126  
 Love, T. R. 1 *m* 342 W. 58  
 Lovejoy, F. W., Jr. 3 *s* 101 Gates ave., Bklyn.  
 Loveless, A. L. 1 *s* 527 W. 124  
 Lovell, H. 4 *t* 1230 Amsterdam ave.  
 Loveman, H. S. 4 *c* 210 W. 139  
 Low, A. S. 3 *t* 430 W. 118  
 Low, E. I. 1 *l* 500 W. 121  
 Lowenstein, O. 3 *l* 42 E. 74  
 Lublin, C. 2 *c* 416 W. 118  
 Lublin, J. 3 *t* 416 W. 118  
 Lucas, R. J. 2 *s* Heath ave., Kingsbridge  
 Lucey, M. H. 3 *t* 221 W. 122  
 Ludlow, T. W. 4 *s* 52 Morningside ave.  
 Ludwig, A. *gr t* 209 E. 109  
 Luithlen, W. 1 *s* 709 Grand, Bklyn.  
 Lull, R. S. *p* Am. Mus. of Nat. Hist.  
 Luther, E. C. 3 *s* 430 W. 118  
 Lyall, P. W. 2 *b* 367 W. 20  
 Lyford, E. B. 3 *c* Porter pl., Montclair, N. J.  
 Lyle, E. M., Jr. 2 *c* 308 W. 99  
 Lyne, F. F. 4 *m* 346 W. 58  
 Lyon, E. C., Jr. 1 *m* 144 W. 65  
 Lyon, G. J. 3 *s* 52 W. 94  
 Lyon, R. 3 *b* 453 W. 24  
 Lyon, W. L. 1 *m* 231 E. 116  
 Lyon, W. W., Jr. 1 *s* 157 W. 92  
 Lyons, A. *pl* 224 Carroll, Bklyn.  
 Mabey, J. C. 2 *m* Montclair, N. J.  
 MacAlarney, E. L. *ph* 67 St. Nicholas ave.  
 Macbean, W. A. B. 4 *m* Tarrytown, N. Y.  
 Macbeth, R. W. 1 *c* 834 Prospect pl., Bklyn.  
 MacClymont, W. E. *sp c* 18 W. 122  
 MacColl, G. B. 1 *b* 410 W. 115  
 MacColl, J. 1 *b* 410 W. 115  
 MacDermaid, M. 3 *t* 1230 Amsterdam ave.  
 MacDonald, A. F. 2 *m* 159 W. 64  
 Macdonald, C. 1 *t* 127 W. 87  
 MacDonald, C. D. 1 *c* Ward's Island  
 MacDonald, E. B. *sp b* Ward's Island  
 MacDougall, C. W. 3 *s* 356 Linden ave., Elizabeth, N. J.  
 MacInnes, A. 3 *t* 118th and Morningside ave.  
 MacIntyre, C. B. 2 *m* 146 W. 12  
 Mack, H. L. 1 *s* 6 W. 70  
 MacKallor, DeW. C. 1 *s* 160 W. 96  
 MacKaye, B. 1 *l* 51 E. 25  
 MacKenzie, A. 1 *c* 604 W. 114  
 Mackintosh, P. D. *pl* 700 Park ave.  
 Maclure, M. F. 1 *m* 177 Clinton ave., Newark, N. J.  
 MacNary, E. E. 4 *t* 213 Laurel ave., Arlington, N. J.  
 Macrae, R. M. 1 *m*  
 Macurdy, G. H. *ph* Vassar College, Poughkeepsie  
 MacVay, A. P. *ph* 153 E. 62  
 Madigan, J. C. 3 *l* 55 W. 84  
 Maeder, E. L. 2 *t* 304 E. 120  
 Maeder, J. S. 3 *c* 304 E. 120  
 Mageworth, J. O. *ph* 2825 Decatur ave., Bedford Pk.  
 Mahan, L. E. 2 *l* 160 W. 86  
 Mahony, A. M. 1 *b* 113 E. 55



Main, C. O. *pl* 700 Park ave.  
 Maisenholver, E. F. 4 *s* 505 Sixth  
 Makely, M., Jr. 2 *s* 49 E. 21  
 Malcolm, J. D. 3 *m* 313 W. 112  
 Malcomson, A. S. 2 *s* Orange, N. J.  
 Malmberg, T. J. W. 3 *c* 352 4th ave.  
 Mandelbaum, H. D. 4 *c* 941 Madison ave.  
 Mangan, J. M. 1 *l* 519 W. 123  
 Mangano, A. *pl* 700 Park ave.  
 Marcus, B. N. 2 *s* 121 E. 65  
 Margolies, S. *ph*  
 Margulies, A. C. 2 *m* 272 50th, Bklyn.  
 Markham, C. L. 4 *m* 106 W. 61  
 Markowitz, A. H. 1 *m* 25 Clinton  
 Marks, B. F. 1 *b* 1034 Lexington ave.  
 Marks, E. 3 *c* 54 St. Nicholas ave.  
 Marks, S. B. 4 *m* 127 W. 61  
 Markson, H. M. *ph* 37 W. 117  
 Marr, A. G. *sp s* 358 W. 123  
 Marsching, J. H. *pl* 414 W. 118  
 Marsh, H. D. *ph* 949 Amsterdam ave.  
 Marsh, R. McC. 3 *l* 414 W. 118  
 Marshall, F. M. 4 *t* 1230 Amsterdam ave.  
 Marshall, M. 3 *t* 207 Hart, Bklyn.  
 Marten, C. 3 *t* 363 W. 123  
 Marten, W. S. 3 *t* 363 W. 123  
 Martin, F. 3 *s* West Orange, N. J.  
 Martin, G. F. 1 *s* 844 Trinity ave.  
 Martin, H. L., Jr. 3 *l* 368 W. 116  
 Martin, J. E. *pl* Paterson, N. J.  
 Martin, L. A., Jr. *p* 824 Bloom-  
 field, Hoboken, N. J.  
 Martin, N. B. 2 *m* 408 W. 58  
 Martin, N. E. S. 1 *l* 14 W. 125  
 Martland, H. S. 2 *m* 1138 Broad,  
 Newark, N. J.  
 Marx, C. J. 1 *c* 110 E. 79  
 Marx, H. 2 *l* 110 W. 114  
 Mason, H. H. 3 *m* 317 W. 58  
 Mason, K. *f*. 3 *t* 1230 Amsterdam ave.  
 Mason, W. T. *pl* 133 W. 130  
 Masee, W. W. *ph* 204 Lenox ave.  
 Masuda, Y. *pl* 64 E. 133  
 Matheson, W. 3 *t* 220 W. 69  
 Matthews, A. J. *ph* 2145 7th ave.  
 Matthews, C. E. 2 *s* 401 Mt.  
 Prospect ave., Newark, N. J.  
 Matthews, M. E. 3 *t* 110 E. 91  
 Matthews, W. McL. 1 *l*  
 Matty, L. J. 4 *s* 358 W. 123  
 Maxwell, E. C. *sp s* 138 W. 131

Mayer, F. 1 *b* 41 E. 72  
 Mayer, H. 4 *t* 1624 Madison ave.  
 Mayer, L. W. 3 *s* 77 E. 79  
 Maynard, E. T. 4 *c* 308 W. 45  
 Mayo-Smith, L. 1 *b* 305 W. 77  
 McAneny, G. 1 *l* 19 E. 47  
 McAneny, L. G. 3 *c* 505 W. 112  
 McAteer, D. A. 1 *m* 714 E. 27,  
 Paterson, N. J.  
 McBaine, J. P. *sp l* 164 W. 81  
 McBride, D. A. 3 *m* 346 W. 58  
 McBride, J. J. 1 *l* 213 E. 38  
 McCarthy, C. A. 1 *m* 143 W. 61  
 McCarthy, C. D. 1 *s* 312 7th, Bklyn.  
 McCarthy, T. 1 *c* 137 W. 120  
 McCaskell, G. W. *sp s* 213 W. 117  
 McCastline, W. H. 4 *m* 108 E. 81  
 McClancy, J. S. V. *sp t* Dunwoodie, N. Y.  
 McCollom, H. C. 4 *c* 715 Manhattan ave.  
 McCollom, W. E. 4 *m* 195 Lefferts pl., Bklyn.  
 McCook, *f*. A. *ph* 10 W. 54  
 McCormack, W. G., Jr. 1 *m* 1062 Woodruff ave.  
 McCormick, P. J. *ph* St. Joseph's  
 Seminary, Dunwoodie, N. Y.  
 McCormick, R. H., Jr. 3 *l* 10 5th ave.  
 McCormick, R. M. 3 *b* 1230 Amsterdam ave.  
 McCoy, T. C. 2 *m* 112 W. 61  
 McCray, C. H. 1 *l* 100 W. 88  
 McCroskery, J. H. 2 *m* 318 Hudson  
 Boulevard, Union Hill, N. J.  
 McCune, R. *sp s* 63 Bway.  
 McCurdy, E. S. 1 *s* 34 W. 57  
 McDermott, J. Z. 3 *m* 10 W. 102  
 McDonald, A. S. 2 *s* 1272 Amsterdam ave.  
 McDonald, E. O. 1 *c* 103 W. 32  
 McDonald, M. I. 3 *t* 112 W. 129  
 McDonald, F. P. 1 *c* 103 W. 32  
 McDonald, J. E. W. 4 *c* 103 W. 32  
 McDonnell, A. J. 1 *s* 310 W. 72  
 McDowell, L. E. 3 *t* Jamaica, L. I.  
 McDowell, W. St. L. 4 *s* 144 W. 130  
 McGee, J. D'A. *gr t* Bedford Park, N. Y.  
 McGee, L. 1 *l* 454 Halsey, Bklyn.  
 McIntyre, M. 2 *s* 345 West End ave.  
 McIntyre, M. A. 4 *t* 600 W. 114  
 McKallagat, P. L. 1 *m* 143 W. 61

- McKay, M. E. 3 t  
 1230 Amsterdam ave.  
 McKee, D. sp l 237 W. 24  
 McKee, E. Du B. 2 b 557 W. 124  
 McKeighan, E. M. 4 t  
 1230 Amsterdam ave.  
 McKelden, W. B., Jr. sp c  
 Hasbrouck Heights, N. J.  
 McKenzie, D. A. 2 c  
 57 Sherman ave., Newark, N. J.  
 McKinney, F. L. 4 t 411 W. 57  
 McKinney, F. W. 3 c  
 Madison, N. J.  
 McLaughlin, C. B. 4 s 254 W. 136  
 McLaughlin, T. D. 1 s 544 W. 113  
 McLaughlin, W. J. 2 l  
 544 W. 113  
 McLean, E. 3 b 31 Highland ave.,  
 Jersey City, N. J.  
 McLitock, H. M. 4 c 149 W. 79  
 McMillin, R. E. 1 s 412 W. 115  
 McMulkin, M. J. 3 t  
 52 Park pl., Bklyn.  
 McNeely, E. pl  
 1230 Amsterdam ave.  
 McNenney, C. E. 3 m  
 116 Mercer, Jersey City, N. J.  
 McNulty, E. T. 1 m  
 441 McDonough, Bklyn.  
 McPhee, R. J. 3 l 354 W. 120  
 McQuade, B. F. ph St. Joseph's  
 Seminary, Dunwoodie, N. Y.  
 McSheehy, M. T. 3 m 102 W. 64  
 McVay, W. ph 205 W. 115  
 McWhood, J. K. 1 l 75 John  
 Mead, B. L. pl 56 Mason,  
 Greenwich, Conn.  
 Mead, N. P. pl 405 W. 17  
 Mead, R. H. 2 s 190 N. 6,  
 Newark, N. J.  
 Mead, T., Jr. 2 s 190 N. 6,  
 Newark, N. J.  
 Meade, R. P. 1 t 126 E. 19  
 Medalie, G. Z. 2 c 20 E. 132  
 Meeker, R. pl 5 W. 125  
 Meeks, E. V. 1 s  
 65 Central Park West  
 Megrue, R. C. 4 c 220 W. 107  
 Mehler, G. J. 3 m 441 W. 57  
 Meinzer, M. S. 2 m 283 Lenox ave.  
 Mellor, F. 3 l 705 Lexington ave.  
 Melniker, A. A. 2 l  
 Bayonne, N. J.  
 Meloney, L. F. 2 m Clifton, N. J.  
 Menges, C. P. 3 s 419 W. 47  
 Mercer, G., Jr. 2 l 30 W. 72  
 Merklinger, T. E. 1 s  
 156 Penna. ave., Newark, N. J.  
 Merrill, A. E. 4 t  
 1230 Amsterdam ave.  
 Merrill, G. A. 2 m 128 W. 112  
 Merrill, S. B. 4 t 606 W. 115  
 Merriman, M. H. 2 m 8. W. 51  
 Merritt, C. C. 3 s 501 W. 120  
 Merritt, J. H. 1 s Tarrytown, N. Y.  
 Merritt, J. I. 1 s 118 W. 118  
 Merritt, L. R. 2 s 501 W. 120  
 Merritt, M. S. ph  
 1230 Amsterdam ave.  
 Merritt, R. V. 1 s  
 Cold Spring, N. Y.  
 Mersereau, G. 4 s 130 E. 36  
 Mersereau, H. C. 3 l 130 E. 36  
 Messer, W. S. 2 c 855 Pavoni  
 ave., Jersey City Heights, N. J.  
 Messner, J. 1 c 254 W. 139  
 Mestre, H. 1 s 303 W. 84  
 Metcalfe, L. M. b  
 611 Bedford ave., Bklyn.  
 Mettler, A. J. 2 s 84 Henry,  
 Bklyn.  
 Metzenthin, W. E. ph 10 E. 47  
 Meyer, F. A. 2 b Park Hill,  
 Yonkers, N. Y.  
 Meyer, G. A. 2 l 578 Ave. D,  
 Bayonne, N. J.  
 Meyer, G. H. 3 m 342 W. 58  
 Meyer, H. A. 2 m 19 St. James  
 pl., Bklyn.  
 Meyer, J. 2 b Hotel Albert  
 Meyer, J. J. 3 m 60 W. 129  
 Meyer, M. A. ph 541 W. 124  
 Meyer, R. B. 2 l Kingsbridge  
 road, Kingsbridge  
 Michael, G. W. ph  
 182 East End ave.  
 Michaelis, A. 3 l  
 591 Lexington ave.  
 Middleton, H. 4 t  
 1230 Amsterdam ave.  
 Miles, G. F. 3 s "The Chelsea,"  
 222 W. 23  
 Miller, A. B. ph 419 W. 118  
 Miller, B. F. 2 s 2051 7th ave.  
 Miller, C. D. 1 l 26 W. 37  
 Miller, H. C. 3 l 417 W. 118  
 Miller, E. C. 1 c  
 64 Montgomery, Newark, N. J.  
 Miller, J. 1 s 183 W. 73  
 Miller, J. M. 3 l 362 W. 118  
 Miller, J. W. 4 b 314 W. 104  
 Miller, L. A. 3 b White Plains,  
 N. Y.  
 Miller, L. H. pl 700 Park ave.  
 Miller, M. E. 3 b  
 64 Pennsylvania ave., Bklyn.

Miller, M. E. *pl* 120 W. 117  
 Miller, R. B. 3 *l* 417 W. 114  
 Miller, T., Jr. 1 *s* 183 W. 73  
 Miller, W. N. 2 *s* 422 W. 146  
 Mills, F. H. M. 4 *t* "Foxhall,"  
 116th and Amsterdam ave.  
 Mills, R. Van A. 1 *s* 308 W. 115  
 Millward, J. B. 2 *s*  
 92 Morningside ave.  
 Miltenberger, G., Jr. 1 *s*  
 430 W. 118  
 Miner, J. B. *ph* 430 W. 118  
 Miner, L. L. 3 *m* Hospital for  
 the Ruptured and Crippled  
 Miningham, W. D. 1 *m* 214 Bel-  
 mont ave., Jersey City, N. J.  
 Mischlich, A. *ph* 108 E. 71  
 Mitchell, I. M. 4 *t* 248 E. 34  
 Mitchell, W. J. 1 *c* 216 E. 61  
 Mitchell, W. S. 1 *s* 24 W. 10  
 Mittendorf, A. D. 3 *m*  
 140 Madison ave.  
 Mockridge, O. A. 1 *m* 244 Belle-  
 ville ave., Newark, N. J.  
 Moeckel, C. R. 1 *m* 143 W. 61  
 Moegling, B. A. 1 *s*  
 College Point, L. I.  
 Moeller, H. N. 3 *m* 341 W. 57  
 Moeller, P. 3 *c* 6 W. 75  
 Moen, L. 4 *s* 606 W. 115  
 Moen, M. W. *sp b* 606 W. 115  
 Moffit, A. R. 3 *m* 129 W. 61  
 Moffit, F. H. *p*  
 1649 Amsterdam ave.  
 Mogulesko, J. L. 2 *m* 125 E. 101  
 Monod, A. F. *ph* 526 W. 114  
 Montell, E. 4 *t*  
 1230 Amsterdam ave.  
 Montgomery, W. H. *pl* 41 E. 59  
 Monty, A. H. 1 *m* 927 Park ave.  
 Moody, J. H. *sp t*  
 1230 Amsterdam ave.  
 Moon, A. W. *gr t* 500 W. 123  
 Mooney, H. R. 2 *c* 243 W. 127  
 Mooney, M. A. *sp b* 75 Morton  
 Moore, B. V. 2 *l* 310 W. 107  
 Moore, E. M. 2 *t*  
 1230 Amsterdam ave.  
 Moore, G. G., Jr. 1 *c*  
 833 Madison ave.  
 Moore, H., Jr. 2 *l* 316 W. 115  
 Moore, H. E. *ph*  
 1230 Amsterdam ave.  
 Moore, J. B. *sp l* 529 W. 123  
 Moore, J. M. 1 *l*  
 1161 Amsterdam ave.  
 Moore, L. M. *sp b*  
 833 Madison ave.

Moore, M. B. *sp t*  
 1230 Amsterdam ave.  
 Moore, R. L. 1 *l*  
 1161 Amsterdam ave.  
 Moorehead, R. L., Jr. 3 *m*  
 387 Bergen, Bklyn.  
 Morales, L. 3 *s* 220 W. 107  
 Morba, K. P. *ph* 532 Madison ave.  
 Moretsky, H. M. 1 *m* 240 W. 10  
 Morford, H. C. 2 *l*  
 Long Branch, N. J.  
 Morgan, C. E. 3 *b*  
 1173 Bushwick ave., Bklyn.  
 Morgenthau, B. F. 1 *b* 248 W. 103  
 Morlan, E. E. *p* 526 W. 123  
 Morrall, C. F. 1 *c* 419 W. 118  
 Morrell, F. S. 3 *s* 442 9th ave.  
 Morris, A. B. 1 *s* 190 W. 100  
 Morris, A. H. 2 *l* 39 Hart, Bklyn.  
 Morris, D. H. 2 *c* 161 W. 87  
 Morris, I. H. 2 *s* 678 Macon,  
 Bklyn.  
 Morris, J. B., Jr. 1 *s*  
 The Franklin, W. 94  
 Morris, R. V. 3 *t* 509 W. 112  
 Morrison, G. L. 4 *t* 23 E. 88  
 Morrison, R. 4 *t* 293 Lenox ave.  
 Morsch, H. W. 3 *m* 308 Ellery,  
 Bklyn.  
 Morton, C. 1 *s* 112 W. 2d,  
 Mt. Vernon, N. Y.  
 Mosenthal, H. O. 4 *m* 181 W. 75  
 Moses, H. L. 3 *l*  
 14 Morningside ave.  
 Moses, J. *gr t* 318 E. 13  
 Moses, J. G. 4 *c* 541 W. 124  
 Mosher, G. W. 1 *s*  
 Cold Spring, N. Y.  
 Mosher, M. A. 3 *s* 531 W. 124  
 Moskowitz, H. *ph* 182 2d ave.  
 Mott, I. 2 *b* 221 W. 123  
 Mott, W. W. 2 *c* 541 W. 124  
 Moulthrop, J. R. 3 *l*  
 903 West End ave.  
 Mount, W. B. 2 *m* 140 W. 92  
 Muir, D. D., Jr. 1 *s* 129 W. 80  
 Muller, A. M. 2 *s* 509 W. 112  
 Muller, N. W. *sp c* 488 4th,  
 Bklyn.  
 Munckwitz, W. 1 *t* 125 W. 120  
 Munker, M. J. 3 *c* 1 W. 92  
 Munroe, E. L. 2 *b* 262 W. 122  
 Murphy, E. J. 3 *m*  
 773 Carroll, Bklyn.  
 Murphy, J. F. 1 *s* 955 E. 165  
 Murphy, J. F. 1 *t* Beech st.,  
 Richmond Hill  
 Murphy, J. L. 4 *s* 19 E. 83

- Murray, J. I t 1102 Franklin ave.  
 Murray, L. S. 2 b 1230 Amsterdam ave.  
 Murtha, M. W. I b 539 W. 148  
 Mussey, H. R. pl 526 W. 123  
 Muzzey, D. S. pl 320 St. Nicholas ave.  
 Myers, A. I. t 28 Prospect, New Rochelle, N. Y.  
 Myers, A. S. I c 309 W. 70  
 Myers, J. 3 c 309 W. 70  
 Myers, M. J. 3 m 59 E. 92  
 Nachumson, D. B. 2 m 1517 1st ave.  
 Nadal, S. R. I s 151 E. 76  
 Nadolsky, W. L. I s 110 Chrystie  
 Nagle, G. A. sp l Hollis, N. Y.  
 Nammack, E. F. ph 560 W. 149  
 Narins, W. 2 m 10 Attorney  
 Narwood, H. M. sp m 424 W. 57  
 Nash, N. M. 4 t 1230 Amsterdam ave.  
 Nash, S. P. 3 l 115 E. 57  
 Nash, W. G. 4 m 465 W. 57  
 Nash, W. O. 4 t 1230 Amsterdam ave.  
 Nathan, E. M. 4 c 35 W. 86  
 Nathan, M. ph 124 E. 59  
 Natsch, H. pl 41 E. 69  
 Naugass, S. 3 s 257 W. 132  
 Naumburg, A. ph 137 W. 74  
 Naylor, G., Jr. I s 400 W. 124  
 Neary, F. W. I l 165 E. 49  
 Neef, F. E. 3 m 117 W. 63  
 Neer, F. Y. 2 m 85 Hamilton ave., Paterson, N. J.  
 Neergaard, G. B. de sp b 149 E. 54  
 Neish, A. C. p 361 W. 123  
 Nelson, A. H. p 505 W. 112  
 Nelson, J. sp t 1230 Amsterdam ave.  
 Nelson, J. F. 2 m 816 E. 145  
 Nelson, L. M. ph 308 McDonough, Bklyn.  
 Nelson, N. W. 4 m 1827 7th ave.  
 Nelson, W. S. sp l 159 W. 120  
 Nemotin, J. 2 m 186 Madison  
 Nesbit, M. O. 3 t 88 Buena Vista ave., Yonkers, N. Y.  
 Neuhoof, H. 2 m 235 E. 86  
 Neuman, H. sp b 70 E. 81  
 Neumann, W. 4 m 62 2d ave.  
 Neus, E. gr s 338 E. 72  
 Neuwelt, L. 2 m 31 W. 111  
 Nevins, D. R. 3 b 682 President, Bklyn.  
 Newborg, J. I s 56 E. 74  
 Newburger, H. W. 3 c 541 W. 124  
 Newell, W. 2 c 354 W. 120  
 Newland, A. M. I b 550 W. 113  
 Newman, F. J. 4 m 58 E. 114  
 Newman, J. F. ph Forest Parkway, Woodhaven, L. I.  
 Newman, R. 2 m 68 Suffolk  
 Newpher, H. 2 t 1230 Amsterdam ave.  
 Newton, E. B. 4 b 554 Bedford ave., Bklyn.  
 Newton, E. R. 2 s Haverstraw, N. Y.  
 Nichols, C. 2 c 413 So. Bway., Yonkers, N. Y.  
 Nichols, H. S. sp b 42 W. 11  
 Nicholson, J. M. 4 s 112 E. 28  
 Nicoll, A. 4 m 338 W. 94  
 Nicoll, G. L. 2 s 606 W. 113  
 Nicoll, L. F. 4 m 40 E. 53  
 Nieder, P. G. 2 s 14 Morningside ave.  
 Nies, M. A. I b 1230 Amsterdam ave.  
 Nisselson, M. 2 m 253 Broome  
 Noble, F. C. 2 c 48 W. 73  
 Noble, U. A. 3 m 139 W. 64  
 Noehren, A. H. 2 m 169 W. 140  
 Nohowec, F. P. I l 225 E. 96  
 Nordin, G. A. I m 37 W. 99  
 Norris, E. M. I s 430 W. 118  
 Norsworthy, H. R. 3 s 234 W. 122  
 Nova, A. I. 3 l 143 Grand  
 Novotny, C. J. I l 245 W. 120  
 Nusim, M. 2 s 175 Orchard  
 Nutt, R. E. 3 b 1230 Amsterdam ave.  
 Nye, F. I. 2 b 220 Riverside Drive  
 Oakes, E. M. 3 t 218 Lenox ave.  
 Oakley, E. J. 3 t 203 Lenox ave.  
 Oberlander, H. C. 2 s 233 E. 85  
 Oberwager, J. I m 34 First  
 O'Brien, H. A. pl 227 W. 122  
 O'Brien, T. E. 3 l 247 Marcy ave., Bklyn.  
 O'Connell, E. J. I c 340 Dean, Bklyn.  
 O'Connell, F. L. 3 c 554 W. 125  
 O'Connor, J. C. 3 m 157 W. 66  
 O'Crowley, C. R. 3 m 12 Lombardy, Newark, N. J.  
 Odell, H. R. 4 c 627 W. 115  
 Odell, L. S. 4 c 37 Cranberry, Bklyn.  
 Odencrantz, T. C. 3 t 5 W. 118  
 O'Donnell, J. A. gr t 520 W. 123

- Ogan, M. L. 4 m 252 W. 121  
 Ogden, C. J. 3 l 250 W. 88  
*Ogilvie, I. H. p*  
*Sherman Square Hotel*  
*O'Grady, A. 3 t 416 W. 118*  
 O'Leary, W. J. 3 m  
 12 Lombardy, Newark, N. J.  
 Olin, R. H. 1 m 2026 7th ave.  
 O'Loughlin, G. S. 4 c 521 W. 149  
 Olsen, R. B. pl  
 193 St. Nicholas ave.  
 Olshausen, B. A. 3 s 206 W. 122  
 Olyphant, R. M., Jr. 1 s 16 E. 52  
 O'Neil, F. S. 2 l 430 W. 118  
 O'Neil, J. S. 3 l 430 W. 118  
 Oppenheim, J. sp c 234 W. 26  
 Oppenheimer, E. D. 3 c 56 E. 66  
 Oppenheimer, F. G. 1 m  
 134 W. 79  
*Opper, E. M. 3 t 216 W. 139*  
*Opper, L. 2 c 360 W. 123*  
 Orchard, W. H. 4 s 158 W. 106  
 O'Reilly, J. J. ph St. Joseph's  
 Seminary, Dunwoodie, N. Y.  
 Orlando, J. 2 m 337 E. 106  
 Orth, S. P. pl 604 W. 115  
 Osborn, C. W. 1 c 538 W. 114  
 Osborn, R. S. 1 s 82 N. Bway.,  
 Yonkers, N. Y.  
*Osborne, E. ph 321 W. 106*  
 Osborne, H. S. 3 s 321 W. 106  
 Osburn, R. C. p 527 W. 124  
 Osgood, C. 4 m 349 W. 58  
 Osk, M. L. sp c 4 W. 115  
 Osnato, M. 1 m 336 E. 12  
 Ostermaier, W. E. 1 s 544 W. 113  
 Ostrander, F. C. ph 242 W. 135  
 Ott, C. A. 1 s 1972 3d ave.  
*Ott, C. H. 1 t 1972 3d ave.*  
 Otten, L. F. 2 c 250 W. 88  
 Ottenberg, I. 3 c 58 E. 92  
 Ottenberg, R. 2 m 58 E. 92  
 Otter, W. M. 1 l 523 W. 123  
 Otter, W. S. W. 1 l 523 W. 124  
 Otto, W. G. C. 3 c  
 929 Bloomfield, Hoboken, N. J.  
*Owen, A. W. sp t 16 Franklin pl.,*  
*Morristown, N. J.*  
*Owen, K. B. 1 t*  
 1230 Amsterdam ave.  
 Owen, K. D. 2 s 70 Christopher,  
 Montclair, N. J.  
 Owens, G. C. 4 m 139 W. 64  
 Ozanne, J. R. sp c 109 W. 54  
 Paddock, B. W. 3 m 317 W. 58  
*Paddock, J. 1 b 141 W. 70*  
 Paganini, P. S. 2 s 312 3d,  
 Jersey City, N. J.  
 Page, R. B. pl 321 W. 118  
 Paley, H. E. t 236 Madison  
 Pallak, L. L. 2 s 60 W. 119  
 Palliser, B. S. 4 s Dobbs Ferry  
*Palliser, H. L. 3 b Dobbs Ferry,*  
 N. Y.  
 Palma, J. E. 1 l 139 W. 122  
 Palmer, A. D. 1 l  
 512 Manhattan ave.  
 Palmer, A. P. 1 s 417 W. 118  
 Palmer, A. W. 1 l  
 206 Clinton ave., Bklyn.  
 Palmer, F. L. W. 1 s 16 W. 38  
 Palmer, L. R. 4 m 137 W. 64  
 Palmer, M. 4 s 51 W. 131  
 Palmer, R. S. 3 l 1 W. 100  
*Panaytora, D. sp t*  
 Englewood, N. J.  
 Pardee, C. A., Jr. 1 m  
 Pardee, H. E. B. 1 c 74 W. 48  
 Parham, F. E. 2 l 457 W. 123  
 Park, E. A. 2 m 317 W. 58  
 Park, S. pl 700 Park ave.  
 Parker, A. sp l 52 Wall  
 Parker, L. A. 2 m  
 262 McDonough, Bklyn.  
*Parker, L. H. 1 b 217 E. 27*  
*Parker, M. A. 3 b*  
 797 Madison ave.  
 Parker, S. C. gr t  
 206 St. Nicholas ave.  
 Parkinson, J. McD. 4 m 328 W. 56  
 Parr, H. L. 3 s Yonkers, N. Y.  
*Parrot, A. B. 3 t Elizabeth, N. J.*  
 Parsons, G. 3 l Hempstead, N. Y.  
*Parsons, H. G. 4 t*  
 1230 Amsterdam ave.  
 Paterson, D. C. 4 m 105 W. 88  
 Patri, A. gr t 453 E. 117  
 Patterson, A. C. 3 l 19 E. 45  
 Patterson, A. M. 1 l 305 W. 112  
 Patterson, D. L., Jr. pl  
 415 W. 118  
 Patterson, E. DeW., Jr. 2 l  
 305 W. 112  
 Patterson, S. B., Jr. 1 s  
 412 W. 115  
 Payne, B. R. gr t 509 W. 124  
 Payson, H. 2 s 627 W. 115  
 Peabody, C. S. 1 s  
 Hotel Margaret, Bklyn.  
 Peabody, J. R. 4 m 366 W. 57  
 Pease, M. C., Jr. 1 m 25 W. 26  
 Pease, T. N. 4 m 251 E. 18,  
 Flatbush, Bklyn.  
 Peck, H. M. 1 s 2 W. 36

- Peck, J. E. 3 t 527 W. 124  
 Peckham, R. 1 l  
 Pecorini, A. ph 700 Park ave.  
 Peet, T. ph 233 5th ave.  
 Pelton, R. T. 3 s 353 W. 119  
 Pembroke, E. R. 4 s 414 W. 118  
 Pentz, J. B. 3 m Hamilton Park,  
 New Brighton, S. I.  
 Percy, H. F. 3 s  
 Perlman, W. 3 s 148 Madison  
 Perrin, E. N. ph 312 W. 113  
 Perrin, M. L. sp t 500 W. 123  
 Perry, A. C. F. 1 c Aqueduct ave.,  
 Fordham Heights  
 Perry, T. L. 4 c 925 West End ave.  
 Peskin, S. pl 123 E. 100  
 Peter, G. W. 1 c 825 E. 161  
 Peters, H. T. 4 c 117 E. 37  
 Peters, J. D. 3 m 59 E. 78  
 Peters, L. E. 3 b Englewood, N. J.  
 Pettit, R. W. 2 m New Brunswick, N. J.  
 Pettit, W. S. 3 l Far Rockaway, N. Y.  
 Pheil, J. G. 3 l 416 W. 118  
 Phelps, G. M. 1 m New Rochelle, N. Y.  
 Philipp, P. B. 3 l 691 Madison  
 ave.  
 Phillips, C. 1 m 444 E. 86  
 Phillips, C. D. sp t 451 West End ave.  
 Phillips, J. F. 2 l 415 W. 118  
 Philp, M. I. ph 46 Grove,  
 E. Orange, N. J.  
 Pickard, G. H. 3 s 519 W. 123  
 Pickard, J. 1 m 422 West End ave.  
 Pickering, J. C. 3 s 51 W. 130  
 Pickhardt, E. W. S. ph 145 E. 62  
 Pidgeon, E. R. 1 m 134 W. 61  
 Piel, W. F. 2 c 118 Lefferts pl., Bklyn.  
 Pierce, H. W. 1 l 520 W. 123  
 Pierce, W. L. S. 2 s Euclid Hall,  
 85th and Bway.  
 Pierpont, D. C. 4 m 349 W. 58  
 Pierrepont, R. S. 2 c 116th and Riverside dr.  
 Pierson, H. M. 4 m Roselle, N. J.  
 Pigott, R. J. S. 1 s 521 W. 161  
 Pigott, S. J. 4 s 639 Lexington ave.  
 Pilcher, J. T. 3 m 386 Grand ave.,  
 Bklyn.
- Pilcher, S. C. 2 l 50 Morningside ave.  
 Pinckney, T., Jr. 4 c Morristown, N. J.  
 Pincus, E. 1 l 1947 7th ave.  
 Pincus, W. 3 m 364 Livingston,  
 Bklyn.  
 Pitkin, H. W. 3 l 521 W. 123  
 Pitner, P. J. 2 s 460 Manhattan ave.  
 Pitou, E., Jr. 3 c 301 W. 84  
 Pitske, E. D. 4 c 365 W. 119  
 Pitt, G. 2 c New Rochelle, N. Y.  
 Plate, H. H. 1 b 416 W. 118  
 Plumb, C. C. 4 t 345 Grier,  
 Elizabeth, N. J.  
 Podolsky, D. L. 3 c 24 Forsyth  
 Polishook, S. N. 1 s 25 E. 3  
 Pollak, W. H. 1 c 219 W. 138  
 Pollock, M. B. sp t 296 Manhattan ave.  
 Pomerene, J. pl 415 W. 118  
 Pond, C. M. 4 s 76 Liberty ave.,  
 New Rochelle, N. Y.  
 Pool, E. M. 4 b 267 W. 79  
 Poole, E. C. ph 184 Eldridge  
 Poole, K. E. 4 b 501 W. 120  
 Popcke, A. G. 1 s 951 Morris ave.  
 Popper, E. 2 s 260 W. 93  
 Popper, H. 3 b 260 W. 93  
 Porter, J. C. 2 s 366 Madison,  
 Bklyn.  
 Porter, W. R. 1 c 50 W. 33  
 Posner, E. R. 4 m 117 W. 64  
 Post, C. M. 1 b Woodside, N. Y.  
 Post, E. S. 1 b Woodside, N. Y.  
 Post, H. B. 1 c 140 W. 77  
 Poston, E. I. 1 m 40 W. 61  
 Potter, E. H. 3 t 1230 Amsterdam ave.  
 Potter, J. M. pl Madison, N. J.  
 Potter, J. R. gr t 567 Ellison,  
 Paterson, N. J.  
 Potter, M. A. 4 t 510 W. 143  
 Potter, P. S. 4 m 316 W. 56  
 Pou, R. E. 4 m 366 W. 57  
 Powell, F. J. 2 s 331 E. 17  
 Powell, L. L. 2 t 416 W. 118  
 Powers, M. T. 2 m 438 W. 57  
 Pozdena, O. R. 2 m 360 E. 72  
 Prager, W. L. 2 s 311 E. 49  
 Prall, J. G. 2 c 49 Wall  
 Pratel, H. sp b 69 W. 71  
 Pratt, C. H. 1 m 95 High,  
 Passaic, N. J.  
 Pratt, J. S. 1 b 82 Maple ave.,  
 New Rochelle, N. Y.

Preble, G. R. 4 t 560 W. 113  
 Prensky, J. M. 1 l 80 Graham ave., Bklyn.  
 Prentis, E. A., Jr. 1 s 408 W. 23  
 Prescott, C. S. 2 m 44 W. 68  
 Price, N. M. 1 b 19 E. 46  
 Priest, L. T. 4 t 55 Pineapple, Bklyn.  
 Prindle, S. M. 3 t 252 W. 121  
 Pritchard, A. O. pl 700 Park ave.  
 Pritchard, W. H. 1 l 512 W. 123  
 Proctor, D. M. 1 l 519 W. 123  
 Protherve, R. 1 s 154 Grace Church st., Port Chester, N. Y.  
 Puente, A. M. 4 m 418 W. 57  
 Pugliese, A. J. gr t 185 E. 117  
 Pulliam, C. L. 3 l 235 W. 122  
 Pullich, O. p 316 W. 115  
 Pumyea, P. C. 2 m 129 W. 61  
 Purcly, A. L. 1 s 128 W. 43  
 Purdon, F. H. 2 b 606 W. 114  
 Purdue, O. C. 1 b 15 So. Arlington ave., E. Orange, N. J.  
 Putnam, B. H. pl 335 W. 86  
 Putnam, E. W. 1 m 306 W. 77  
 Putnam, W. 1 s 74 W. 94  
 Putzel, R. M. 3 c 1239 Madison ave.  
 Quackenbos, G. P. ph 331 W. 28  
 Quezada, C. T. 1 s 32 W. 94  
 Quilliard, F. T. 1 t 33 W. 130  
 Quinby, E. S. ph 123 W. 121  
 Quinn, C. M. 2 m 135 W. 64  
 Quinn, J. H. sp c 412 W. 115  
 Raabe, A. 1 m 1000 Brook ave.  
 Radgik, B. 2 m 32 Atlantic ave., Bklyn.  
 Radin, P. p 347 E. 116  
 Raines, J. M. 3 t 1230 Amsterdam ave.  
 Raitt, E. B. 4 t 522 W. 123  
 Ralph, V. 1 b 253 W. 71  
 Ramsey, H. M. ph 175 9th ave.  
 Randolph, H. S. F. 2 s 1730 Bway.  
 Randolph, J. sp c 213 W. 127  
 Rauh, F. E. 4 b 54 E. 73  
 Rawoller, F. C. 1 s Hotel Margaret, Bklyn.  
 Ray, E. T. 1 m 555 W. 182  
 Ray, J. G. 1 l 519 W. 123  
 Ray, M. ph 1230 Amsterdam ave.  
 Ray, T. H. 2 l 555 W. 182  
 Raygada, P. E. 1 s 214 W. 46  
 Raymond, D. V. 4 c 55 Liberty

Rea, P. M. p 438 Manhattan ave.  
 Reaney, E. J. 1 b 218 W. 94  
 Reardon, B. E. 2 l 343 Riverside ave., Yonkers. N. Y.  
 Rearick, A. C. 2 l 227 W. 122  
 Recknagel, W. E. 4 m 330 W. 57  
 Redington, J. R. 3 l 2787 Bway.  
 Reed, E. L. ph 141 W. 4  
 Reed, J. H. pl 526 W. 123  
 Reeder, R. A. 2 b Hastings-on-Hudson, N. Y.  
 Reid, E. J. 3 s 1200 Franklin ave.  
 Reid, F. E. 4 t 1230 Amsterdam ave.  
 Reid, R. L. 4 m 148 W. 91  
 Reiley, A. C. 2 b 211 W. 102  
 Reis, A. M. 3 c 609 West End ave.  
 Reilinger, B. H. 2 b 66 W. 68  
 Rejall, A. E. 1 c 54 Tompkins pl., Bklyn.  
 Remick, B. sp b 108 Madison ave.  
 Rendell, G. E. 3 l 328 W. 113  
 Reppenhagen, L. 2 t 1230 Amsterdam ave.  
 Reuben, M. 1 m 11 E. 106  
 Rey, O. H. ph 173 Penn, Bklyn.  
 Reynolds, F. A. ph 5 W. 125  
 Reynolds, H. S. 1 l 26 W. 36  
 Reynolds, J. J. gr t 843 E. 158  
 Rheinsteim, A. M. 1 b 55 W. 89  
 Riblet, M. V. 4 t 343 E. 68  
 Riblet, R. F. 1 c 343 E. 68  
 Rice, F. W. 1 m 961 6th ave.  
 Rich, C. W. 1 c 222 W. 139  
 Rich, J. P. 4 t 439 Manhattan ave.  
 Rich, L. H. 3 l 32 W. 118  
 Rich, M. E. 3 t 439 Manhattan  
 Rich, M. E. W. 1 b Mt. Vernon, N. Y.  
 Richards, E. H. ph 533 W. 124  
 Richards, H., Jr. 4 s 119 E. 71  
 Richardson, B. J. gr t 223 W. 106  
 Richardson, J. E. gr t 1230 Amsterdam ave.  
 Richardson, R. J. 1 l 430 W. 118  
 Richardson, W. C. ph 604 W. 115  
 Richters, R. M. 1 c 614 E. 143  
 Ricketts, H. E. 2 m 328 W. 56  
 Ridder, B. H. 4 c 447 E. 84  
 Riddle, G. W. 1 s 1161 Amsterdam ave.  
 Riedel, C. O. 3 s c/o G. Amsinck & Co., 6 Hanover sq.

- Riggs, L., Jr. 4 c 46 E. 29  
 Ring, A. E. 2 s Sheridan ave.  
 and 159  
 Ringer, P. H. 3 m 325 W. 58  
 Ringland, R. F. 4 m Montclair, N. J.  
 Rionda, L. J. 3 s 464 W. 145  
 Risely, E. 2 t  
 Rix, M. L. 3 b 419 W. 118  
 Roach, L. J. 2 l 414 W. 118  
 Robbins, C. B. 2 l 419 W. 118  
 Robeach, A. 4 m 52 E. 122  
 Roberts, H. E. 3 t  
 1230 Amsterdam ave.  
 Roberts, M. C. 4 t 526 W. 114  
 Robinson, A. M. 4 b  
 1230 Amsterdam ave.  
 Robinson, E. M. 4 m 13 Orchard  
 Robinson, J. L. 3 c 524 W. 123  
 Robinson, J. P. 2 c 178 Main,  
 Orange, N. J.  
 Robinson, R. C. 3 m 339 W. 55  
 Robinson, T. G. 2 c 209 W. 118  
 Robinson, W. W. ph  
 Madison, N. J.  
 Rochester, A. sp b Englewood, N. J.  
 Rochester, T. W. 2 s 58 Paterson,  
 Jersey City, N. J.  
 Roden, B. F., Jr. 2 s 419 W. 118  
 Roderick, S. V. ph  
 949 Amsterdam ave.  
 Rodman, B. B. 3 c  
 846 Boulevard, Astoria, N. Y.  
 Rodman, H. 4 t 846 Boulevard,  
 Astoria, N. Y.  
 Rodriguez, F. 4 s 536 W. 114  
 Rogers, A. 3 s 214 W. 128  
 Rogers, A. D. 2 t  
 1230 Amsterdam ave.  
 Rogers, H. M. 4 b  
 1230 Amsterdam ave.  
 Rogers, R. B. 2 s 241 W. 101  
 Rogers, S. E. 1 l 162 E. 78  
 Rogers, S. L. 1 t 101 W. 90  
 Rohlf, O. D. 2 s 415 W. 117  
 Rohr, M. D. 1 b Ave. B and 15th,  
 Westchester, N. Y.  
 Rolle, S. 2 s 145 W. 111  
 Rollins, W. F. sp c 754 Carroll,  
 Bklyn.  
 Rollinson, E. H. 2 t Rahway, N. J.  
 Romano, S. C. 2 m 2081 2d ave.  
 Rood, W. H. 2 l 53 W. 126  
 Roop, M. J. gr t Ridgefield, N. J.  
 Rose, C. R. 2 l  
 1161 Amsterdam ave.  
 Rose, G. M. 2 t 420 W. 23  
 Rose, J. T. 3 m 220 W. 69  
 Rosen, I. 4 m 340 E. 72  
 Rosen, L. A. 2 l 15 E. 101  
 Rosenbaum, M. 4 m 318 E. 4  
 Rosenberg, A. 2 m 617 Sixth  
 Rosenberg, A. E. 1 b 14 W. 88  
 Rosenberg, G. L. sp c 119 E. 81  
 Rosenblatt, B. sp b 55 E. 92  
 Rosenfeld, R. sp m 138 Forsyth  
 Rosenheck, C. 2 m  
 278 St. Ann's ave.  
 Rosenson, H. J. 2 c 63 Morton,  
 Bklyn.  
 Rosenstein, H. 2 m 278 Stanton  
 Rosenthal, L. A. 1 c  
 1111 Madison ave.  
 Rosenthal, J. 1 m 501 W. 140  
 Rosenwasser, M. E. 3 c 12 Cannon  
 Ross, C. A. 1 m 465 W. 57  
 Ross, E. K. 3 m 204 11th St.,  
 Hoboken, N. J.  
 Ross, W. H. 3 m 219 Penn.,  
 Bklyn.  
 Rossano, A. T. 1 m 2106 1st ave.  
 Rossbach, I. 1 b 1 W. 86  
 Rossbach, W. sp c Mt. Vernon, N. Y.  
 Rossberg, W. N. 2 s  
 92 St. Nicholas ave.  
 Rothschild, C. G. 3 s 4 E. 67  
 Rothschild, W. L. 2 c  
 1111 Madison ave.  
 Rouse, R. E. 1 t 1207 Park ave.  
 Rowan, E. A. 1 l 133 W. 22  
 Rowe, H. M. 1 l Bay Shore, L. I.  
 Rowland, H. H. 4 m 145 W. 64  
 Royall, R. 3 l 416 W. 118  
 Royce, S. G. ph 3 Mt. Morris  
 Pk., W.  
 Royse, S. D. 3 l  
 Rubin, I. 2 m 232 5th st.  
 Rubinow, I. M. pl  
 1708 Lexington ave.  
 Rucker, A. J. sp l 416 W. 118  
 Rückert, O. 1 m 36 Hart, Bklyn.  
 Ruef, J. W. 2 l 320 W. 115  
 Ruhe, A. S. 1 s 216 W. 102  
 Ruhl, A. t 499 11th st., Bklyn.  
 Ruland, N. sp s 306 W. 82  
 Rule, L. sp t 1230 Amsterdam ave.  
 Runyon, L. P. 4 m  
 65 Central Park West  
 Rupp, F. L. 2 s 359 W. 34  
 Rushmore, E. H. 1 m 310 W. 56  
 Rushmore, E. R. 4 b  
 1230 Amsterdam ave.  
 Russak, L. B. 1 t 536 W. 149  
 Russell, B. A. 2 b 324 W. 83  
 Russell, B. K. 1 b 119 Pacific,  
 Bklyn.



Russell, D. L. 2 m 34 Clenden-  
ning ave., Jersey City, N. J.  
Ryan, J. P. 4 m 147 W. 63  
Ryan, P. F. 3 l 1001 Kent ave.,  
Bklyn.  
Ryan, R. 2 m 318 W. 57  
Ryan, S. E. 2 m 129 W. 61  
Ryland, M. G. 4 t 220 W. 45  
Rynin, S. G. 1 s 24 Jackson  
Ryshpan, B. sp b 262 E. Bway.  
Ryshpan, S. 4 t 262 E. Bway.  
Ryttenberg, C. 1 m 38 W. 91  
  
Sackett, F. 1 t 421 Manhattan ave.  
Sage, W. M. 1 s 981 Madison ave.  
Saladine, S. 4 m 387 Broome  
Salik, A. 2 b 214 Rivington  
Saling, H. J. sp s 8 E. 86  
Salley, E. M. 1 l 306 W. 115  
Salter, G. F. ph 123 N. 16,  
E. Orange, N. J.  
Sammis, J. F. 1 m 109 W. 63  
Sample, C. W. C. 3 s 7 W. 65  
Sample, S. J. 2 l 503 W. 124  
Sanborn, O. C. 1 l 328 W. 56  
Sand, E. L. sp c  
Ardasley-on-Hudson, N. Y.  
Sanders, G. 2 m  
850 West End ave.  
Sanford, M. T. 4 t 400 W. 151  
Sanger, C. 3 s 126 W. 111  
Sanguinetti, P. C. 4 s  
440 St. Nicholas ave.  
Sapir, E. 2 c 104 E. 88  
Saqui, E. 1 s 2026 7th ave.  
Sartori, A. J. 3 m 28 Roosevelt  
Saunders, T. L. 3 m 414 W. 118  
Saving, W. sp s 136 E. 34  
Sawyer, J. M. 1 s 415 W. 118  
Sawyer, O. H. pl 111 Chambers  
Sawyer, R. 4 t  
33 Morningside ave.  
Saxe, B. D. ph 17 Lexington ave.  
Sayers, E. L. 4 s 218 W. 121  
Schaap, M. A. 1 s 32 W. 120  
Schaefer, E. P. 2 m 444 S. 7,  
Newark, N. J.  
Schapiro, J. 2 m 130 Rivington  
Scharff, V. E. ph  
63 Cambridge pl., Bklyn.  
Scharps, C. E. T. 4 c 57 W. 75  
Schauffler, C. E. 3 t 23 Wood-  
land ave., New Rochelle, N. Y.  
Schaus, C. J. 3 s 111 St. Paul's  
ave., Tompkinsville, S. I.  
Schayer, M. 2 m 52 E. 120  
Scheina, O. 4 m  
1997 Lexington ave.

Schenck, G. H. 3 m 143 W. 63  
Schey, J. S. 1 l 430 W. 118  
Schieffelin, G. R. D 1 c 8 E. 45  
Schiffman, S. 1 c 90 Sheriff  
Schilling, W. B. 2 s 2051 7th ave.  
Schlachter, C. E. 3 c  
333 Lewis ave., Bklyn.  
Schlageter, F. 1 b  
1230 Amsterdam ave.  
Schlivek, K. 3 m 316 E. 79  
Schlosberg, S. ph 313 E. 74  
Schmidt, C. H. 1 b 31 N. Bleecker,  
Mt. Vernon, N. Y.  
Schmidt, F. S. 3 s 90 2d ave.  
Schmitt, H. F. 4 s 60 W. 94  
Schneider, C. A. 3 s 430 W. 118  
Schnepel, G. A. 4 m 182 W. 82  
Schock, D. R. 3 s 528 W. 123  
Schoonmaker, R. B. 1 s  
519 W. 123  
Schott, G. J. Van V., 1 m 125 Lex-  
ington ave., Passaic, N. J.  
Schramm, A. O. 3 c  
50 Morningside ave.  
Schreiber, C. T. 3 s 515 Van  
Buren, Bklyn.  
Schreiber, H. W., Jr. 1 s  
676 Willoughby ave., Bklyn.  
Schroeder, R. C. T., Jr. 4 c  
1045 Bloomfield, Hoboken, N. J.  
Schück, G. J. 3 m 1228 Garden,  
Hoboken, N. J.  
Schuessler, H. 1 b Closter, N. J.  
Schuessler, M. 1 b Closter, N. J.  
Schuldenfrei, L. 1 l 73 W. 115  
Schulman, M. 2 m 58 W. 115  
Schulman, R. 4 c 82 Leonard,  
Bklyn.  
Schultz, N. 2 b 127 W. 85  
Schultz, R. S., Jr. 1 s  
412 W. 115  
Schumaker, M. V. 4 t  
1230 Amsterdam ave.  
Schumer, H. 1 m 249 Broome  
Schur, C., Jr. 2 m 600 Park ave.  
Schuster, E. 1 l 133 W. 116  
Schuyler, L. R. pl  
434 Central Park W.  
Schuyler, R. L. 4 c  
1025 Park ave.  
Schwab, F. C. 1 l 526 W. 123  
Schwab, R. 1 l 410 W. 115  
Schwaneflugel, C. A. 1 s 898  
Steinway ave., L. I. C., L. I.  
Schwargman, I. 1 l 336 E. 30  
Schwartz, D. B. 2 m  
354 Pacific, Bklyn.  
Schwartz, L. H. 1 m 58 Ave. D

- Schwartz, M. E. 2 m  
204 St. Nicholas ave.
- Schwartz, M. H. 2 l 542 W. 113
- Schwartz, P. 1 m 310 Second
- Schwarz, R. J. 1 l 67 W. 115
- Schwarz, S. A. 2 s 330 E. 58
- Schwarzkopf, W. 1 s 235 W. 126
- Schwed, H. 2 c 519 W. 123
- Schwegler, F. H. 1 l 155 W. 88
- Schwegler, G. 2 s 201 W. 85
- Schwerin, N. P. 4 t 100 W. 80
- Scott, A. C. 2 s Westchester, N. Y.
- Scott, B. T. 2 b  
1230 Amsterdam ave.
- Scott, C. A. p 507 W. 112
- Scott, E. 1 c 41 Elmhurst ave.,  
Elmhurst, L. I.
- Scott, F. 2 s 305 W. 112
- Scott, G. G. p 368 W. 117
- Scott, J. C. sp s 527 W. 123
- Scribner, J. E. 1 m  
79 Ward, Paterson, N. J.
- Scruton, W. A. 1 m 46 Market
- Scully, J. sp t Dunwoodie, N. Y.
- Seaman, F. C. 2 l 135 St. James  
pl., Bklyn.
- Sears, H. C. 1 m 318 W. 57
- Sears, W. H. 3 s 419 W. 118
- Seaton, G. M. 4 t 846 Boulevard,  
Astoria, N. Y.
- Secor, M. R. 1 b Arlington, N. J.
- Secrest, B. E. 4 t  
1230 Amsterdam ave.
- Secrest, G. 4 t  
1230 Amsterdam Ave.
- Secrest, L. W. gr t  
1230 Amsterdam ave.
- Sedgwick, A. E. 2 s 439 W. 123
- See, E. T. 1 s  
481 Manhattan ave.
- Seeligman, I. S. 1 b 231 W. 129
- Seggel, O. F. sp c 285 Central  
ave., Jersey City, N. J.
- Seguine, L. R. 4 b Rosebank,  
S. I.
- Seibert, J. R. sp b  
1230 Amsterdam ave.
- Seiders, M. A. sp t  
1230 Amsterdam ave.
- Seifest, H. F. 1 s 255 Hancock  
ave., Jersey City, N. J.
- Seil, H. A. 4 c 90 Smith,  
Perth Amboy, N. J.
- Selden, G. C. pl 300 W. 112
- Seligberg, A. L. pl  
1034 Park ave.
- Seligberg, W. N. 2 l  
1034 Park ave.
- Sellers, G. M. 3 s 524 W. 123
- Selvage, C. E. 1 m 546 Clinton  
ave., Newark, N. J.
- Selvage, I. L. 3 c 546 Clinton  
ave., Newark, N. J.
- Seme, P. ka I. 1 c 19 W. 135
- Sender, C. S. 1 l 73 E. 93
- Seniza, F. C. 4 t 136 Boulevard,  
Hoboken, N. J.
- Sergeant, H. DeF. 3 s 544 W. 113
- Seringhaus, F. W., Jr. 3 s  
954 8th ave.
- Serota, H. M. 2 m  
1683 Washington ave.
- Severson, I. W. 1 m 328 W. 56
- Sewall, F. H. 3 s 37 W. 22
- Seward, A. L. pl  
263 West End ave.
- Seward, B. W. 1 b 100 W. 76
- Seward, E. K. sp t 250 W. 94
- Seymour, A. D. 1 s  
280 McDonough, Bklyn.
- Seymour, A. T. p Orange, N. J.
- Seymour, J. 3 b 256 Penn, Bklyn.
- Seymour, J. C., Jr. 3 c 622 W. 147
- Shackelford, F. 3 t 524 W. 123
- Shaine, M. S. 1 m 8 E. 131
- Shainwald, M. S. 4 b 661 5th ave.
- Shainwald, R. L., Jr. 4 c  
661 5th ave.
- Shanley, M. E. 2 b 150 W. 125
- Shannahan, R. J. 4 m 159 W. 64
- Shapiro, A. I. 2 m 4 Elm,  
Yonkers, N. Y.
- Shaw, C. F. pl 41 E. 69
- Shaw, I. D. gr t 39 Beech,  
E. Orange, N. J.
- Shaw, S. F. 4 s 58 Manhattan ave.
- Shea, W. A. 1 m
- Sheahy, J. E. 1 l  
1229 Lexington ave.
- Shearman, W. H. sp c  
771 Madison ave.
- Sheehan, J. M. ph 209 Carroll,  
Bklyn.
- Sheehan, W. J. 1 m
- Shelley, S. E. 3 b  
1230 Amsterdam ave.
- Shenkowitz, W. A. 3 l  
316 W. 115
- Shenstone, N. S. 2 m 138 W. 64
- Shepard, W. A. 3 l 243 W. 99
- Shepardson, J. E. gr s  
251 W. 122
- Sheppard, J. J. pl 331 W. 101
- Shepperson, M. sp t  
1230 Amsterdam ave.
- Sherer, E. E. ph 117 E. 54

- Sheridan, J. W. *ph*  
Bedford Park, N. Y.
- Sherman, A. L. 3 *m* 338 W. 56
- Sherman, K. M. 3 *t*  
1230 Amsterdam ave.
- Sherman, L. F. 4 *b*  
Peekskill, N. Y.
- Sherrick, M. M. 3 *t*  
1230 Amsterdam ave.
- Sherron, G. A. 2 *s*  
Rowayton, Conn.
- Sherwood, W. D. 1 *m* 683 E. 160
- Shidlovsky, J. 3 *l* 17 Catharine
- Shields, H. 4 *c*  
1161 Amsterdam ave.
- Shinn, N. I. 1 *b*  
Pelham Manor, N. Y.
- Shipman, C. S. 4 *m* 1 W. 128
- Shoaff, F. B. 3 *l* 414 W. 118
- Shoenfeld, J. B. 4 *c* 14 E. 76
- Shriver, W. P. *pl* 700 Park ave.
- Shuart, H. A. 1 *l* Ramsay, N. J.
- Shugerman, H. P. 2 *m* 408 W. 58
- Shwitzer, S. D. 3 *l* 116 W. 136
- Sibley, R. P. *ph* 469 W. 152
- Sichel, W. 1 *c* 122 W. 121
- Sigmund, B. J. 1 *s* 168 Second
- Silberman, S. 1 *m* 289 E. 3
- Silberstein, N. 1 *c* 107 E. 109
- Sill, K. A. 4 *t* 304 Mulberry
- Silliman, J. C. 3 *m* 318 W. 57
- Silverman, H. L. 2 *s* 541 W. 124
- Simmons, F. A. 4 *m* 339 W. 55
- Simonds, W. B., Jr. 2 *c* 207 W. 79
- Simons, A. G. 3 *s* 128 St. Paul's  
ave., Tompkinsville, S. I.
- Simons, L. W. 3 *t* Port Chester,  
N. Y.
- Simons, M. L. 1 *b* 231 William,  
Port Chester, N. Y.
- Simpson, E. B. *ph*  
1230 Amsterdam ave.
- Simpson, K. M. 4 *c* 419 W. 118
- Sincerbeaux, F. H. 1 *l* 414 W. 118
- Sinclair, A. L. *sp m* 20 E. 127
- Sinclair, J. E. 1 *s* 62 Taylor,  
Newark, N. J.
- Sinclair, J. S. *sp b*  
564 Hancock, Bklyn.
- Sindeman, K. W. *sp t* 114 E. 64
- Singer, C. E. *sp s* 115 W. 115
- Sinnott, J. J. 4 *m* 242 S. 2d ave.,  
Mt. Vernon, N. Y.
- Sinnott, M. 2 *b* 66 E. 129
- Sirovich, W. I. 1 *m* 364 E. 4
- Sittenfield, M. M. 1 *l* 203 W. 138
- Skinner, M. D. 4 *b* 501 W. 120
- Skofield, P. F. 1 *s* 152 W. 131
- Slack, J. D. 3 *m* 143 W. 63
- Slade, E. *sp t* 247 5th ave.
- Sladkus, S. E. 3 *l* 1893 7th ave.
- Slamovitz, J. 2 *m* 2005 2d ave.
- Slavik, W. C. *gr t* 153 W. 102
- Sloane, C. O'C. 1 *c* 55 Montrose  
ave., S. Orange, N. J.
- Sloane, J. R. 3 *l* 109 E. 69
- Sloane, M. W. *sp b* 247 Broad,  
Newark, N. J.
- Sloane, T. O'C., Jr. 4 *s*  
S. Orange, N. J.
- Slocum, A. L. 1 *m* 209 E. 53
- Slosson, S. 2 *c*  
116th and Riverside Drive
- Small, H. F. *ph* 54 W. 85
- Smalley, H. L. 1 *s* 524 E. Front,  
Plainfield, N. J.
- Smallwood, J. C. 4 *s* 554 W. 114
- Smetanka, J. *pl* 41 E. 69
- Smillie, S. 3 *s* 650 Madison ave.
- Smith, A. *ph* 1481 Madison ave.
- Smith, A. C. 3 *s* 416 W. 118
- Smith, A. G. *ph* 95 Grand, Bklyn.
- Smith, A. V. W., 2 *b* 183 W. 135
- Smith, A. W. *pl* 301 W. 118
- Smith, C. B. 1 *l* 17 W. 103
- Smith, C. L. 1 *l* 413 W. 117
- Smith, C. LeR. 3 *s* 51 W. 86
- Smith, D. K. 3 *t* 260 W. 72
- Smith, E. C. 2 *l*  
517 Manhattan ave.
- Smith, E. J. 3 *m* 318 W. 57
- Smith, E. L. 3 *t* 417 W. 118
- Smith, G. M. 2 *m* 253 W. 75
- Smith, H. A. 2 *l* 22 W. 51
- Smith, H. K. *pl* 430 W. 118
- Smith, H. W. 1 *l* 417 W. 114
- Smith, J. B., Jr. 2 *l*  
299 Alexander ave.
- Smith, J. H. 2 *l* Port Chester,  
N. Y.
- Smith, J. J. 2 *m* 141 W. 61
- Smith, L. B. 2 *c* 97 South,  
Mt. Vernon, N. Y.
- Smith, L. J. 4 *m* 318 W. 57
- Smith, M. 2 *b* 535 W. 159
- Smith, M. E. 2 *m* 418 W. 57
- Smith, P. *pl* 419 W. 118
- Smith, R. S. 2 *l* 526 W. 123
- Smith, R. W. 4 *s* 361 W. 22
- Smith, S. B. 2 *m* 413 W. 117
- Smith, S. L. 1 *m* 75 W. 94
- Smith, T. S. *ph* 68 E. 77
- Smith, W. *p* 150 W. 125
- Smith, W. L. 4 *s* 254 W. 98
- Smith, W. M. 1 *m* 143 W. 61
- Smith, W. S. 2 *m* 207 W. 56

- Smith, W. T. 3 s 542 W. 113  
 Smith, W. W. gr t 30 W. 128  
 Smolensky, A. L. 1 m 2902 3d ave.  
 Smythe, S. gr t 405 E. 61  
 Snedeker, C. F. 2 s 354 Manhattan ave.  
 Snell, C. 1 m 288 Lexington ave.  
 Snider, G. E. pl 408 W. 115  
 Snook, J. H. pl 700 Park ave.  
 Snyder, F. X. sp l 22 Prospect Park West, Bklyn.  
 Sobel, S. P. 1 m 32 Second  
 Soden, G. A. 2 m 441 Summer ave., Newark, N. J.  
 Solley, F. D. 2 m 1332 Lexington ave.  
 Solomon, C. L. 2 b 61 W. 117  
 Solomon, L. A. 3 l 14 W. 120  
 Solomon, M. C. 1 m 252 E. 60  
 Solomon, W. L. 1 c 522 W. 150  
 Solow, A. S. 2 s 307 E. 87  
 Solow, D. E. 1 s 307 E. 87  
 Somborn, E. 1 b 125 E. 69  
 Somers, H. ph 526 W. 114  
 Sonna, A. V. ph 604 W. 115  
 Soper, A. E. 1 m 1181 Dean, Bklyn.  
 Southworth, R. L. 4 t 235 W. 120  
 Spanier, L. 4 m 290 Stanton  
 Sparkman, L. H. 2 b 448 Ellison, Paterson, N. J.  
 Spears, E. A. t 21 W. 135  
 Speck, F. G., Jr. 3 c Hackensack, N. J.  
 Spence, K. M. 1 c 320 W. 75  
 Spence, L. G. 2 c 320 W. 75  
 Spencer, E. B. T. ph 408 W. 115  
 Spencer, E. M. 3 l 604 W. 114  
 Spencer, H. R. pl 507 W. 112  
 Spencer, J. W. 1 l 236 W. 49  
 Spicer, C. C. 2 l 312 W. 115  
 Spickers, W., Jr. 1 m 2 W. 83  
 Spiegelberg, S. L. 1 m 151 Greene  
 Spiegelberg, W. S. 4 c 26 W. 83  
 Spingarn, S. 2 c 118 E. 58  
 Spingler, G. C. 1 t 139 Shelton ave., Jamaica, L. I.  
 Spiro, W. J. 4 s 58 W. 79  
 Spitalsky, N. L. 2 l 275½  
 Springfield ave., Newark, N. J.  
 Sprague, C. H. 3 m 328 W. 56  
 Sprague, F. K. 2 c 47 W. 32  
 Sprigg, C. sp l 604 W. 114  
 Springer, A. 2 t 1230 Amsterdam ave.  
 Springer, E. 1 t 1230 Amsterdam ave.  
 Springmeyer, C. E. gr t 241 E. 123  
 Squires, F. 3 s "The Emerson," 121st and Amsterdam ave.  
 Squires, L. 2 l 500 W. 121  
 Staber, H. L. 2 b 360 Clinton, Bklyn.  
 Stackpole, C. 3 t 419 W. 118  
 Stackpole, E. B. pl 43 Maple, Bloomfield, N. J.  
 Stainton, G. F. 1 l 125 E. 111  
 Stangland, R. S. 3 s 157 W. 123  
 Stanley, C. R. p 669 Leonard, Bklyn.  
 Stanley, H. W. 4 c 439 W. 123  
 Stapf, F. M. 1 b 1230 Amsterdam ave.  
 Staral, F. J. 3 s 519 W. 123  
 Starr, A. 1 s 136 E. 119  
 Starr, F. ph 136 E. 119  
 Starr, I. P. 2 m 17 Essex  
 Stauffen, E., Jr. 3 c 328 W. 83  
 Staunton, H. C. ph 533 W. 124  
 Steegmuller, C. A. 2 s 17 Quintard ave., So. Norwalk, Ct.  
 Steele, M. L. 3 t 106 W. 92  
 Steele, P. 1 l 242 Carroll, Bklyn.  
 Steere, A. 1 m 322 W. 55  
 Steeves, H. R. 3 c 62 W. 130  
 Steiger, K. F. 3 t 1230 Amsterdam ave.  
 Stein, C. R. 3 s 343 E. 47  
 Stein, H. L. 3 c 292 Manhattan ave.  
 Steinbock, H. A. 3 l 427 E. 50  
 Steindler, H. 3 s 308 W. 121  
 Steiner, M. 1 l 327 E. 42  
 Steiner, S. H. 1 c 235 W. 133  
 Steinert, J. B. 4 t 435 W. 123  
 Steinhardt, E. sp b Hotel Majestic  
 Steinhardt, I. D. 1 m 168 W. 96  
 Stepanek, B. ph 138 W. 4, Mt. Vernon, N. Y.  
 Stephens, E. G. sp t 1230 Amsterdam ave.  
 Stephens, J. W. ph 80 W. 105  
 Stephens, R. 1 c 146th and Gerard ave.  
 Stephens, W. V. V. 1 s 146th and Gerard ave.  
 Stephenson, A. G. 3 c 147 W. 120  
 Stephenson, J. C. ph 220 W. 4  
 Stern, A. 4 m 1829 Crotona ave.  
 Stern, D. 1 l 553 Manhattan ave.  
 Stern, I. R. 4 b 993 5th ave.  
 Stern, R. M. 3 b 29 W. 87  
 Stern, W. T. 3 l 986 5th ave.  
 Stetson, D. D. 3 m 349 W. 58

- Stevens, C. T. 3 m 169 Centre  
ave., New Rochelle, N. Y.
- Stevens, H. H. 2 m 188 Buena  
Vista ave., Yonkers, N. Y.
- Stevens, H. L. 3 t 348 W. 71
- Stevens, O. E. 2 s 116th and  
Riverside Drive
- Stewart, C. A. 1 c 259 W. 11
- Stewart, E. E. 1 m 123 W. 11
- Stewart, M. B. ph 175 9th ave.
- Stewart, S. 1 m 751 E. 25,  
Paterson, N. J.
- Stewart, V. C. 3 m 272 W. 89
- Steyne, L. A. sp l 260 W. 130
- Stickney, H. A. 3 l 45 E. 30
- Stiebritz, E. 1 b 604 Bway.,  
Long Island City, L. I.
- Stiefel, F. R. A. 1 l 10 E. 86
- Stillman, C. K. 3 m 350 W. 55
- Stillman, R. E. 2 t  
1230 Amsterdam ave.
- Stillwell, H. A. 4 s  
187 Marlboro' rd., Bklyn.
- Stimson, J. C. p 159 W. 86
- Stiner, P. A. 2 c 149 W. 120
- Stinson, J. W. 1 s "The Arbu-  
tus," cor. 91 and West End ave.
- Stites, M. C. 3 t  
1230 Amsterdam ave.
- Stitt, E. W. 1 b 156 W. 93
- St. John, T. R. 1 l 143 W. 61
- St. John, W. W. 2 m 143 W. 61
- Stobo, J. R. 3 b  
Hotel St. Andrew's
- Stocker, M. A. 3 t  
1230 Amsterdam ave.
- Stofford, A. O. sp t 132 W. 32
- Stollzfus, A. sp t  
1230 Amsterdam ave.
- Stone, D. ph 533 W. 124
- Stone, M. A., Jr., 4 s  
244 Central Park West
- Stone, M. H. 3 b 254 W. 93
- Stork, L., Jr. 4 m 703½ 3d ave.,  
Bklyn.
- Stoutenburgh, C. H. 3 s 59 W. 54
- Stover, R. 4 s 531 W. 124
- Stow, S. H. 3 s 614 W. 113
- Stowell, E. E. 2 l 415 W. 118
- Strain, W. P. 1 m 28 Guion,  
New Rochelle, N. Y.
- Strasser, A. L. 4 c 128 E. 62
- Stratford, A. C. ph  
397 Flaubush ave., Bklyn.
- Stratmann, C. F. 1 m 453 E. 25,  
Bklyn.
- Straus, E. E. 2 l  
14 Morningside ave.
- Stray, A. T. 3 c 10 Tompkins  
ave., Ossining, N. Y.
- Strebeigh, R. L. 2 l 76 E. 55
- Streeter, P. C. 1 c 409 W. 117
- Streeter, S. G. gr t 293 Lenox ave.
- Strodl, G. T. 4 m 614 Malone,  
W. Hoboken, N. J.
- Struss, W. E. 2 s  
729 St. Nicholas ave.
- Struyk, J. S. sp s 100 Bway.
- Stryker, A. B. 3 t 9 Lake,  
White Plains, N. Y.
- Stuart, F. sp t 412 W. 115
- Stubbs, H. M. t 478 W. 145
- Sturdevant, T. K. sp s  
430 W. 118
- Sturges, H. P. 4 c 56 E. 34
- Sturtevant, H. R. 1 l 430 W. 118
- Sullivan, F. J. A. 1 l  
74 McDonough, Bklyn.
- Sullivan, G. sp t Dunwoodie, N. Y.
- Sullivan, J. C. 3 l 413 W. 117
- Sullivan, M. A. 1 l 281 W. 119
- Sullivan, M. D. 2 m 157 W. 66
- Sullivan, R. P. A. sp s 526 W. 123
- Sulsona, D. J. D. t
- Sumner, A. J. 1 m 130 Broome
- Sumner, J. T. 2 m 6 E. 32
- Sumner, M. B. pl 416 W. 118
- Sundheimer, A. I. sp c 234 W. 137
- Sussman, M. H. 1 s 318 E. 121
- Sutro, H. A. 1 s 44 W. 76
- Sutter, M. V. sp s 431 W. 147
- Sutton, G. A. K. 4 c 131 W. 118
- Sutton, W. S. 2 m 329 W. 51
- Suydam, A. G. 1 s Morsemere  
Park, Ridgefield, N. J.
- Swan, B. L. 3 b 115 Union ave.,  
Mt. Vernon, N. Y.
- Swan, E. 4 t 68 W. 96
- Swart, C. T. 3 s 226 S. 2nd ave.,  
Mt. Vernon, N. Y.
- Swartz, C. C. 3 s 542 W. 113
- Swenson, J. A. 3 c 943 4th ave.,  
Bklyn.
- Swick, D. A. gr t  
1683 Lexington ave.
- Swick, K. De F., 4 t
- Swift, F. H. gr t 41 E. 69
- Swift, M. B. 2 m 129 W. 61
- Swope, H. B. 1 c 604 W. 114
- Swortfiguer, H. B. 3 c  
261 Central Park West
- Symes, J. F. 3 l 56 W. 36
- Taber, E. J. L. 2 l 414 W. 118
- Taft, T. K. 1 s  
Cornwall-on-Hudson, N. Y.

- Taggart, A. R. 3 t  
 350 Madison ave.  
 Talbot, A. A. 2 b  
 Bowne Park, Flushing, L. I.  
 Talmage, J. B., Jr. 3 m  
 294 Willis ave.  
 Talmage, J. F. pl 1 W. 54  
 Tanenbaum, S. A. 3 s 110 W. 76  
 Tanser, H. H. 4 b 294 W. 92  
 Tarditi, A. 4 m 387 Broome  
 Tasche, F. 1 t 444 E. 120  
 Taschman, M. 3 m 160 E. 109  
 Tassey, W. E. 1 m 127 W. 61  
 Tatlock, F. M. ph  
 1231 Madison ave.  
 Tattershall, A. S. 2 b  
 1230 Amsterdam ave.  
 Tatum, E. H. 3 l 300 W. 106  
 Tavenner, E. ph 56 W. 105  
 Taves, A. W. 4 m  
 408 Manhattan ave.  
 Taylor, A. R. 3 i 367 Monroe.  
 Bklyn.  
 Taylor, H. B. 1 s  
 879 West End ave.  
 Taylor, J. sp s  
 1161 Amsterdam ave.  
 Taylor, J. A. 2 c 3285 Bway.  
 Taylor, F. E. 1 166 W. 83  
 Taylor, J. W. 4 c 3285 Bway.  
 Taylor, N. S. M. 3 s 110 W. 91  
 Taylor, W. 1 b 45 S. Maple ave.,  
 E. Orange, N. J.  
 Taylor, W. C. 1 l 73 W. 88  
 Telsey, S. A. 4 c 455 Stone ave.,  
 Bklyn.  
 Temple, H. K. 1 s 519 W. 123  
 Tenney, A. S. 1 s 415 W. 118  
 Tenney, J. B. 1 s 415 W. 118  
 Tepper, E. 1 l 137 W. 116  
 Te Poel, L. J. 1 l 11 E. 106  
 Terry, C. H. pl 41 E. 69  
 Terry, W. R. 2 m 318 W. 57  
 Tetley, T. R., Jr. 3 s 304 Bleecker  
 Thacker, B. K. sp t 109 W. 54  
 Thaw, E. pl 1 W. 72  
 Thayer, H. S. sp s 526 W. 114  
 Thistle, M. A. sp t 525 W. 156  
 Thoman, W. F. 2 c 312 W. 87  
 Thomas, C. L. 3 l 134 W. 117  
 Thomas, C. S., Jr. 1 s  
 606 W. 113  
 Thomas, E. B. sp t  
 New Rochelle, N. Y.  
 Thomas, H. A. 1 c  
 115th and Riverside Drive  
 Thomas, H. L. ph  
 1230 Amsterdam ave.  
 Thomas, H. L. R. 2 c  
 1161 Amsterdam ave.  
 Thomas, J. S. 3 m  
 706 West End ave.  
 Thomas, J. W. ph 1228 Dean,  
 Bklyn.  
 Thomas, L. B. 4 c 211 W. 137  
 Thomas, M. D. 3 m 366 W. 57  
 Thomas, M. E. 3 b 157 Glen-  
 wood ave., Yonkers, N. Y.  
 Thomas, M. M. 3 t  
 1230 Amsterdam ave.  
 Thomas, N. E. 1 t  
 706 West End ave.  
 Thomas, W. E. ph 314 W. 113  
 Thomas, W. M. gr t 112 Alden,  
 Cranford, N. J.  
 Thomas, W. S. gr t 408 W. 115  
 Thompson, B. I. 4 b  
 21 1st pl., Bklyn.  
 Thompson, C. M. 3 t 507 W. 124  
 Thompson, H. pl 519 W. 123  
 Thompson, J. F. 4 s 21 1st pl.,  
 Bklyn.  
 Thompson, M. 2 b 166 W. 97  
 Thompson, M. J. p  
 43 Putnam ave., Bklyn.  
 Thompson, R. W. pl 438 W. 116  
 Thompson, V. 4 t 500 W. 123  
 Thompson, W. D. pl  
 700 Park ave.  
 Thomson, C. K. ph 175 9th ave.  
 Thorburn, S. G. sp t 215 W. 51  
 Thorndike, E. L. pl 524 W. 123  
 Thorp, A. F. M. 2 b  
 1230 Amsterdam ave.  
 Thorp, T. J. 2 s 171 E. 70  
 Thorpe, W. pl 700 Park ave.  
 Thunig, L. A. 1 m 162 Madison,  
 Bklyn.  
 Thurber, A. E. 3 c 310 W. 115  
 Thurlow, J. N. 1 c 604 W. 115  
 Thurston, E. D., Jr. 2 c 113 E. 29  
 Tice, W. A. 3 c 2053 7th ave.  
 Tierney, J. L. sp t  
 Dunwoodie, N. Y.  
 Tiffany, W. J. 2 m 465 W. 57  
 Tilford, A. B. 3 t  
 806 West End ave.  
 Tillinghast, R. B. 1 l 500 W. 121  
 Tilt, W. A. 1 c 5 E. 67  
 Tilton, A. R. 4 m 151 W. 64  
 Timmermeister, K. 2 l 316 W. 115  
 Tincker, E. L. 1 l 627 W. 115  
 Tinker, W. H. pl 700 Park ave.  
 Tintner, B. A. 3 c 18 W. 118  
 Titsworth, S. R. 2 m 125 W. 5,  
 Plainfield, N. J.

*Titsworth, S. S. pl* 414 W. 118  
*Todd, E. S. pl* 466 W. 151  
*Tolbert, W. Van Der L. 1 l* 522 W. 123  
*Tolchinsky, J. 2 c* 483 Sutter ave., Bklyn.  
*Toll, R. W. 1 s* 536 W. 114  
*Tomkies, C. D. 4 c* 531 W. 124  
*Tomlinson, J. C., Jr. 2 l* 45 W. 57  
*Tompkins, G. B. 1 c* 104 Park ave., Paterson, N. J.  
*Toms, E. I. 1 b* 1581 Washington ave.  
*Tonnelé, J. L., Jr. 2 c* 48 E. 68  
*Torre, M. de la 2 s* 201 W. 120  
*Toscano, L. J. C. 4 b* 654 Academy, Astoria, L. I.  
*Toussaint, C. A. 4 c* 3688 Boulevard, Jersey City, N. J.  
*Townsend, H. C., Jr. 1 c* 517 Manhattan ave.  
*Townsend, S. D. 2 c* 327 W. 112  
*Townshend, R. 2 m* 181 W. 75  
*Toy, C. R. 3 c* 268 Springfield ave., Summit, N. J.  
*Tracy, W. E. 3 s* 416 W. 118  
*Trainor, J. H. 4 m* 364 W. 58  
*Travis, T. pl* 700 Park ave.  
*Treat, H. P. 2 c* 201 W. 100  
*Treat, M. 1 t* 1230 Amsterdam ave.  
*Treat, P. J. pl* 942 St. Nicholas ave.  
*Trevor, J. B. 1 l* 21 E. 37  
*Trier, B. 2 b* 703 Madison, Bklyn.  
*Tripp, P. B. 1 c* 249 W. 103  
*Tripp, W. H. 2 s* 397 Central ave., East Orange, N. J.  
*Trompen, N. J. 1 s* Ramsey, N. J.  
*Trotter, J. P. 2 c* 189 Warburton ave., Yonkers, N. Y.  
*Trowbridge, E. E. 4 t* 294 W. 92  
*Truax, H. 1 l* 235 W. 108  
*Truax, S. 4 s* 536 W. 114  
*Trube, J. M. 3 t* Hastings-on-Hudson, N. Y.  
*Trubenbach, C. D. 2 s* 324 W. 57  
*Truesdell, E. D. 1 m* 310 W. 56  
*Tucker, G. W., Jr. 2 c* 419 W. 118  
*Tucker, L. E. gr t* 438 Putnam ave., Bklyn.  
*Tucker, S. M. ph* 3 W. 8  
*Tulipan, L. 2 m* 119 Attorney  
*Tunick, I. S. 4 m* 185 Allen  
*Turnbull, B. 2 s* 430 W. 118  
*Turnbull, W. F. 4 c* 27 Park pl., Orange, N. J.  
*Turner, G. C. 2 l* 343 Quincy, Bklyn.

*Turner, J. K. 3 t* 1230 Amsterdam ave.  
*Turrell, C. A. ph* 224 W. 116  
*Twichell, D. C. 4 m* 65 Central Park West  
*Tyler, B. P. 1 l* 169 W. 81  
*Tyler, E. W. 1 l* 381 Lewis ave., Bklyn.  
*Tyler, W. R. 3 s* 36 W. 93  
*Ufford, M. M. ph* 477 Central Park West  
*Ukon, W. pl* 366 W. 116  
*Ulmann, E. A. E. 1 c* 147 W. 91  
*Underhill, M. V. sp b* 259 W. 84  
*Ungrich, M. J. 4 s* 213 W. 133  
*Untermeyer, I. 1 c* 675 5th ave.  
*Updike, D. M. 3 s* 156 W. 74  
*Updike, E. H. 3 c* 156 W. 74  
*Upham, B. A. sp t* 51 E. 61  
*Vail, C. E. 1 m* 354 Mt. Prospect ave., Newark, N. J.  
*Vail, R. W. 1 l* 201 W. 117  
*Valentine, J. J. 2 m*  
*Van Aken, E. W. pl* 700 Park ave.  
*Vanamee, T. O. 3 m* 340 W. 57  
*Van Auker, H. C., Jr. 1 m* 100 W. 85  
*Van Buren, I. 2 b* 314 W. 99  
*van Buren, J. D., Jr. 2 c* New Brighton, N. Y.  
*Vance, R. A. pl* 331 W. 101  
*Van Cise, L. K. 4 b* 1230 Amsterdam ave.  
*Van Cise, W. M. 4 s* 417 W. 117  
*Vandenberg, J. 3 m* 46 Ave. D  
*Vanderbeek, M. C. ph* Englewood, N. J.  
*Vander Veer, A., Jr. 3 m* 317 W. 58  
*Van Dyke, B. S. 4 m* 127 W. 67  
*Van Ingen, E. G. 3 b* 135 Henry, Bklyn.  
*Van Ingen, H. sp b* 135 Henry, Bklyn.  
*Van Name, W. M. ph* 2 Monroe, Bklyn.  
*Van Ness, S. W. 3 c* 121 Mt. Pleasant ave., Newark, N. J.  
*Van Nest, M. V. sp b* Glen Ridge, N. J.  
*Van Nostrand, N. W. 2 c* 126 Bway.  
*Van Siclen, M. 1 s* 430 W. 118  
*Van Vliet, J. L. ph* 516 W. 142  
*Van Wageningen, E. 3 s* 36 E. 53

- Van Wagenen, H. R. 1 s  
39 W. 126
- Vary, H. J. 4 m 360 W. 58
- Vaughan, H. S. 3 m 127 W. 48
- Vaughan, J. C. 2 m 295 Verona  
ave., Newark, N. J.
- Vedder, J. N. p  
411 Manhattan ave.
- Venable, M. G. 4 t  
1230 Amsterdam ave.
- Verhoeff, M. pl 416 W. 118
- Vermilye, R. M. 1 m  
34 Gramercy Park
- Verplank, J. B. R. 3 c 430 W. 118
- Vetsburg, K. M. 3 l 533 W. 149
- Veve, J. 2 m 223 W. 22
- Veve, S. 1 s 211 W. 122
- Victor, R. C. 3 l 303 W. 102
- Vidal, J. E. 1 m Stapleton, S. I.
- Vigouroux, G. G. 2 s 50 W. 84
- Villoldo, P. 2 m 132 E. 54
- Vimont, M. L. gr t  
1230 Amsterdam ave.
- Vogel, E. 2 l 557 W. 124
- Vogel, E. C. 3 c 56 E. 80
- Volk, M. 2 m 37 Rutgers  
vom Saal, F. M. 2 s 16 E. 55
- Von Bernuth, R. L. 3 c 130 W. 64
- von Nardroff, E. R. p  
397 Madison, Bklyn.
- von Pustau, C., Jr. 1 s 96 Wall
- Von Sholly, B. R. 4 c  
3135 Bway.
- Von Unwerth, F. sp b 13 W. 60
- Voorhees, H. C. 1 m 422 W. 57
- Voorhees, I. W. 2 m 328 W. 56
- Voxman, W. 1 t 125 Forsyth
- Vreeland, L. B. 2 c 231 W. 135
- Vreeland, R. D. 1 m 316 Bway.,  
Paterson, N. J.
- Waddell, R. H. 4 c  
120 Riverside Drive
- Wade, J. E. ph 372 Manhattan  
ave.
- Wadeldon, T. D., Jr. 1 c  
Bronxville, N. Y.
- Wagner, W. M. A. 2 l  
517 Manhattan ave.
- Wagstaff, A., Jr. 1 s  
116th and Riverside Drive
- Wahlstrom, L. W. 3 t 70 W. 108
- Wainwright, J. M. B. 3 m  
333 W. 58
- Waldron, J. L. 2 c  
301 Tompkins ave., Bklyn.
- Walker, A. S. B. 1 l 72 Hudson  
ave., Guttenberg, N. J.
- Wallace, I. 3 t  
1230 Amsterdam ave.
- Wallace, J. G., Jr. 1 l 236 E. 50
- Wallach, A. N. 4 b 15 W. 91
- Wallach, K. R. 2 c 53 E. 80
- Wallach, W. S. 1 l 745 E. 5
- Wallau, A. L. 1 c 68 E. 80
- Wallin, W. J. 2 l 2122 8th ave.
- Walling, A. 1 t 352 W. 115
- Walling, L. G. 1 m 339 W. 55
- Walls, F. J. 1 s 415 W. 118
- Wallstein, L. M. 4 c  
2032 5th ave.
- Walmsley, H. B. 3 l 414 W. 118
- Walser, C. W. 3 m New Brigh-  
ton, Richmond Co., N. Y.
- Walsh, F. P. 4 s 145 W. 21
- Walsh, J. J., Jr. 2 l 6 E. 93
- Walter, J. C. 3 s 306 W. 113
- Walters, E. R. 4 b 532 W. 159
- Walther, J. W. 1 m  
431 Hopkins ave., Astoria, L. I.
- Walz, A. 2 s 259 W. 112
- Walz, J. 3 c 259 W. 112
- Ware, A. G. 4 b  
1285 Madison ave.
- Ware, G. H. 3 t  
1230 Amsterdam ave.
- Ward, A. H. 3 m 162 Preak-  
ness ave., Paterson, N. J.
- Ward, E., Jr. 1 s 134 W. 70
- Ward, E. St. J. 3 m 457 W. 123
- Ward, F. E. music Room 611,  
Carnegie Hall
- Ward, F. E. 2 s 400 W. 124
- Ward, M. A. t 536 W. 125
- Ward, R. F. 3 m 640 Madison ave.
- Ward, W. 3 m 41 Park Place,  
Bloomfield, N. J.
- Waring, A. T. 3 b 301 W. 106
- Warner, A. H. 2 s 415 W. 118
- Warner, E. H. 2 t 56 W. 33
- Warner, H. A. 3 t  
1230 Amsterdam ave.
- Warr, F. L. pl 49 E. 21
- Warren, A. D. 2 c 48 W. 9
- Warren, G. E. 3 c 48 W. 9
- Warrender, F. I. G. sp b  
65 Howard, Newark, N. J.
- Warrin, R. H. 1 s 614 W. 113
- Warth, A. H. 1 s 19 Smith  
Ter., Stapleton, S. I.
- Washington, C. M. ph 56 E. 53
- Waterman, F. E. 2 s  
829 West End ave.
- Waterman, W. W. 3 m  
567 W. 113
- Watkins, E. D. 1 m 108 W. 61



- Watkins, S. S., Jr. 1 s 500 W. 149  
 Watres, H. A. sp l Princeton  
 Club, 47 W. 43  
 Watson, E. A. 1 b  
 Hackensack, N. J.  
 Watson, F. 1 l 64 W. 56  
 Watson, F. W. 2 s 400 W. 57  
 Waugh, A. M. ph 415 W. 118  
 Waugh, L. 1 t 1230 Amsterdam ave.  
 Weathers, N. A. 1 l 220 W. 105  
 Webb, H. W. 2 c  
 Glen Ridge, N. J.  
 Webb, K. S. 1 c 248 W. 102  
 Wechsler, J. Z. 1 l 87 Lenox ave.  
 Weekes, B. G. pl 64 W. 48  
 Weekes, H. H. sp c 64 W. 48  
 Weeks, C. 4 t 59 W. 104  
 Weeks, L. S. 4 s 317 Lexington  
 ave.  
 Weeks, M. F. ph 100th and  
 Riverside Drive  
 Wehe, W. C. 1 l 416 W. 118  
 Weingarten, F. S. 1 m  
 678 E. 140  
 Weinrich, M. F. 3 s Yonkers,  
 N. Y.  
 Weinstein, G. sp c 544 W. 142  
 Weinstein, S. 1 l 369 Grand,  
 Bklyn.  
 Weinstock, L. 3 m  
 643 Lexington ave.  
 Weir, C. H. 3 m 147 W. 63  
 Weislowitz, M. sp m  
 292 E. Houston  
 Weiss, H. L. 1 s 25 W. 119  
 Weissman, C. 3 c 2 E. 80  
 Weissman, M. 4 m 328 Stanton  
 Weizenhoffer, A. 1 m 393 E. 8  
 Welch, A. J. 3 l 47 E. 38  
 Welch, K. A. 3 t 153 E. 62  
 Welch, P. R. 1 l 412 W. 115  
 Welch, W. F. 3 l 312 W. 115  
 Welle, E. 2 b 345 Straight,  
 Paterson, N. J.  
 Welles, F. C. 4 c 80 S. Clinton,  
 E. Orange, N. J.  
 Welles, M. C. ph  
 1230 Amsterdam ave.  
 Wells, F. A. 3 t  
 1230 Amsterdam ave.  
 Wells, F. L. 4 c 567 W. 113  
 Wells, M. A. 1 b 508 Park ave.,  
 E. Orange, N. J.  
 Welsh, H. B. 4 t  
 Welsh, W. H., Jr. sp s  
 Yonkers, N. Y.  
 Wendt, C. ph 135 Halsey, Bklyn.  
 Werner, G. B. 4 c 209 W. 97  
 Werner, L. A. 2 s 35 Mt. Morris  
 Park West  
 Wertheim, L. 2 m  
 44 Liberty ave., Bklyn.  
 Werts, H. E. 3 b 37 Danforth  
 ave., Jersey City, N. J.  
 West, C. L. 3 t 478 Ellison,  
 Paterson, N. J.  
 Westbrook, F. A. 2 s  
 97 St. Felix, Bklyn.  
 Westervelt, W. W., Jr. 1 l  
 33 Pine  
 Weston, C. P. p 314 W. 113  
 Westover, R. R. 1 m  
 Wetherhorn, M. 2 l 16 W. 117  
 Whealton, I. R. 4 t  
 1230 Amsterdam ave.  
 Wheat, B. P. 2 l 521 W. 123  
 Wheeler, A. t  
 Wheeler, B. N. 2 s 362 W. 57  
 Wheeler, E. E. 3 l  
 874 West End ave.  
 Wheeler, H. L. 2 b 411 W. 145  
 Wheeler, J. A. 3 m 86 Jay,  
 Albany, N. Y.  
 Whicher, G. M. ph  
 68 Columbia Hgts., Bklyn.  
 Whiffin, E. T. pl 461 W. 164  
 Whitbeck, B. H. 4 m 5 E. 43  
 Whitcomb, E. 3 t  
 439 Manhattan ave.  
 Whitcomb, R. H. sp s 165 W. 82  
 White, D. 2 m 328 W. 56  
 White, E. M. 1 t Ossining, N. Y.  
 White, H. L. p 39 W. 117  
 White, J. R. 4 t 200 W. 80  
 White, M. C. sp b Yonkers, N. Y.  
 White, R. J. 2 c 29 W. 95  
 White, R. P. 2 m 435 Fairmount  
 ave., Jersey City, N. J.  
 Whitehall, F. M. ph 104 Hewes,  
 Bklyn.  
 Whitin, E. S. 3 c 501 W. 113  
 Whitley, M. T. 3 t 416 W. 118  
 Whitlock, M. 4 t  
 1230 Amsterdam ave.  
 Whitney, W. B., Jr. 2 s  
 239 W. 105  
 Whiton, H. I. ph 28 W. 128  
 Whiton, W. H. 3 m  
 2009 Newkirk ave., Bklyn.  
 Whittaker, M. McL. 4 m 143 W. 61  
 Whittier, W. E. sp s 511 W. 112  
 Whitwell, C. B. 1 s 37 W. 11  
 Wichman, F. M. 3 s 354 W. 120  
 Wick, J. M. 3 b Elmhurst, L. I.  
 Wickes, L. W. 4 s 413 W. 117  
 Wickham, J. N. 4 m 330½ W. 56

- Wickliffe, M. F. t  
     1230 Amsterdam ave.  
 Widmer, H. R. 4 m  
     Port Richmond, S. I.  
 Wiechers, J. H. 1 s 419 W. 118  
 Wiemann, A. B. 1 c 263 E. 78  
 Wien, F. V. ph 65 E. 93  
 Wiener, S. 3 m 1001 Madison ave.  
 Wiesner, L. A. 1 b 251 W. 100  
 Wiggin, J. D. 1 s 316 W. 115  
 Wiggin, R. H. 1 s 23 Snyder,  
     Orange, N. J.  
 Wight, M. V. D. t 525 Park ave.  
 Wilbur, H. R. 4 t  
     1230 Amsterdam ave.  
 Wilcox, E. D. 4 b Yonkers, N. Y.  
 Wilcox, H. L. 1 b Yonkers, N. Y.  
 Wilcox, S. H. 2 s 41 W. 52  
 Wilcox, W. 1 t  
     1230 Amsterdam ave.  
 Wile, U. G. 3 c 304 W. 89  
 Wilkinson, L. Von V. 4 t  
     1230 Amsterdam ave.  
 Will, P. 3 s 415 W. 118  
 Willard, P. D. 1 s 415 W. 118  
 Willcox, J. E. 3 c 326 W. 113  
 Willets, R. H. 1 s 505 W. 124  
 Willhöfft, F. O. 3 s 527 W. 123  
 Williams, B. P. 4 t 209 W. 129  
 Williams, C. L. 1 c 27 S. Clinton,  
     E. Orange, N. J.  
 Williams, D. J. pl 41 E. 6  
 Williams, F. D. 4 m 365 W. 55  
 Williams, H. G. 1 l 430 W. 118  
 Williams, H. I. 1 b 1264 Boston  
     road  
 Williams, I. D. 4 m 318 W. 57  
 Williams, J. N. 4 m 369 W. 46  
 Williams, L. O. 3 l  
     Edgewater-on-Hudson, N. J.  
 Williams, R. 1 s 430 W. 118  
 Williams, R. T. 2 s 244 Purdy,  
     Long Island City  
 Williams, R. Y. 3 s 419 W. 118  
 Williams, W. B. 1 s 262 Van  
     Horne, Jersey City, N. J.  
 Williamson, G. N., Jr. 4 s  
     14 Dey  
 Williamson, P. W. 3 l 604 W. 114  
 Willing, M. S. 1 l  
     122nd and Amsterdam ave.  
 Willis, A. L. 2 c 58 Lawrence  
     ave., Flushing, L. I.  
 Willis, H. T. 4 s 430 W. 118  
 Willis, R. H. 2 s 220 E. 48  
 Willson, B. 1 t  
     1230 Amsterdam ave.  
 Willson, P. 2 m 308 W. 115
- Wilmot, H. C. 4 s 203 W. 106  
 Wilson, F. H. 3 m 574 Madison,  
     Bklyn.  
 Wilson, J. H. ph 326 Central ave.,  
     Plainfield, N. J.  
 Wilson, J. R. 2 m 645 W. 57  
 Wilson, J. S. ph 135 W. 81  
 Wilson, R. C. 2 s 542 W. 114  
 Wilson, R. C. 3 c 102 W. 84  
 Winetraub, A. I. M. 2 s 22 E. 111  
 Winston, E. T. 2 l  
     879 West End ave.  
 Winters, G. P. 1 l 121 E. 82  
 Wiren, M. ph 416 W. 118  
 Wiren, O. B. 2 c  
 Wisansky, J. 2 m 236 E. Bway.  
 Wise, F. 3 m 238 E. 60  
 Wise, H. M. 3 l 138 W. 75  
 Wise, L. D. 3 m 11 W. 65  
 Wissler, C. ph 528 W. 123  
 Withrow, W. E. 2 l 148 W. 121  
 Wittig, G. 3 s 413 W. 118  
 Wohlfarth, A. ph 119 W. 129  
 Wolf, J. I. 2 m 33 Essex  
 Wolff, A. J. 1 l 75 E. 82  
 Wolff, A. M. 4 s 31 W. 54  
 Wolff, E. 4 c 120 W. 88  
 Wolff, G. L. ph 130 E. 89  
 Wolff, J. 1 l Yonkers, N. Y.  
 Wolff, M. 4 m 69 E. 80  
 Wolff, S. L. ph 130 E. 80  
 Wolff, W. A. 2 s 56 W. 114  
 Wood, A. I. ph 430 W. 118  
 Wood, C., Jr. 1 c 38 E. 76  
 Wood, C. C. 3 t 430 W. 118  
 Wood, C. W. 4 t 21 W. 135  
 Wood, E. C. pl Wadleigh High  
     School, 114th and 7th ave.  
 Wood, E. D. ph 58 W. 51  
 Wood, E. M. sp b  
     482 Humboldt, Bklyn.  
 Wood, M. C. 3 t 61 E. 25  
 Wood, W. 3 s 58 W. 51  
 Wood, W. G. 1 m 61 E. 25  
 Woodard, C. A. sp c 3 May,  
     New Rochelle, N. Y.  
 Woodhull, M. ph 567 W. 113  
 Woodhull, M. C. gr t 174 W. 126  
 Woodruff, I. M. 3 t  
     1230 Amsterdam ave.  
 Woodruff, I. O., Jr. 3 m  
     152 W. 78  
 Woodruff, L. L. p 202 W. 103  
 Woodruff, M. 1 t 344 Gregory  
     ave., Passaic, N. J.  
 Woods, T. H., Jr. 1 m  
     23 Lafayette, Bklyn.  
 Woodson, C. W. 3 m 202 W. 82

Wooldridge, J. C. 1 m 129 W. 61  
 Woolf, H. gr t  
 138th and Amsterdam ave.  
 Woolley, J. E. 1 c 70 Monticello  
 ave., Jersey City  
 Woolley, J. S. 2 m 75 E. 79  
 Work, J. C. 2 s  
 116th and Riverside Drive  
 Wormser, M. 4 s 836 5th ave.  
 Worth, W. A. 3 t  
 2109 Amsterdam ave.  
 Wortmann, A. 4 c 126 E. 79  
 Worzel, H. H. 1 c 179 4th ave.,  
 Bklyn.  
 Wright, E. H. 1 c 222 Bowery  
 Wright, F. S. 1 m 42 W. 76  
 Wright, H. W. 2 m 451 Morris  
 ave., Elizabeth, N. J.  
 Wronker, B. M. 1 c 261 W. 127  
 Wuppermann, R. K. 3 c  
 412 W. 115  
 Wurtele, A. H. pl 175 9th ave.  
 Wyant, A. de L. 1 s 141 W. 85  
 Wyant, A. M. 4 t 332 W. 85  
 Wyatt, C. B. 4 c 28 E. 30  
 Wyckoff, C. J. 4 c 185 Penn,  
 Bklyn.  
 Wyckoff, H. E. 4 t  
 1230 Amsterdam ave.  
 Wyld, R. H. 3 s 331 W. 82  
 Wylie, J. P. 1 l 160 W. 133

Wyman, M. L. 3 t  
 1230 Amsterdam ave.  
 Wynkoop, J. 3 s 41 W. 124  
 Wynne, S. W. 3 m 148 E. 18  
 Yates, W. H. 4 s 309 W. 128  
 Yatsu, N. p 463 Manhattan ave.  
 Yen, C. Y. pl 597 Bway.  
 York, H. J. 3 m 417 W. 117  
 Yoshioka, S. ph 700 Park ave.  
 Young, D. K., Jr. pl 41 E. 69  
 Young, J. W. 4 m 127 W. 74  
 Young, W. G. 2 m  
 92 McDonough, Bklyn.  
 Younger, G. A. 2 c 34 Barker,  
 W. New Brighton, N. Y.  
 Zeiger, F. ph 138 Park,  
 Montclair, N. J.  
 Zeiger, G. V. 2 c 138 Park,  
 Montclair, N. J.  
 Zeigler, C. E. gr t 170th and  
 Boscobel ave.  
 Zeiler, A. H. 2 m 160 W. 19  
 Zeitlin, J. 2 c 2101 8th ave.  
 Zelenko, D. 3 m 17 Varet, Bklyn.  
 Zerbe, D. M. 4 t 129 W. 120  
 Zieme, C. H. sp s 175 South  
 Zigler, M. 2 m 189 Chambers  
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## SUMMARY

## OFFICERS

Professors.....	90	
Adjunct Professors.....	31	
Clinical Professors and Lecturers.....	16	
Instructors.....	66	
Demonstrators.....	3	
Assistant Demonstrators.....	10	
Tutors.....	50	
Assistants.....	47	
Curators.....	2	
Lecturers.....	26	
Clinical Assistants.....	79	
	<hr/>	
OFFICERS OF INSTRUCTION.....	420	
OFFICERS OF ADMINISTRATION.....	17	
EMERITUS OFFICERS.....	10	
	<hr/>	
TOTAL.....	447	
TEACHERS COLLEGE ( <i>not included above</i> ).....	89	
	<hr/>	
GRAND TOTAL OF OFFICERS.....		536

## STUDENTS

COLUMBIA COLLEGE:		
Senior class.....	69	
Junior ".....	127	
Sophomore ".....	86	
Freshman ".....	156	
Special students.....	46	
	<hr/>	484
The Faculty of Law:		
Third-year class.....	129	
Second-year ".....	133	
First-year ".....	180	
Special students.....	24	
	<hr/>	466

## The Faculty of MEDICINE:

Fourth-year class.....	171
Third-year ".....	181
Second-year ".....	205
First-year ".....	201
Special Students.....	19
	<hr/> 777

## The Faculty of APPLIED SCIENCE:

Graduate students.....	5
Fourth-year class.....	79
Third-year ".....	138
Second-year ".....	165
First-year ".....	189
Special students.....	27
	<hr/> 603

## School of ARCHITECTURE:

Fourth-year class.....	10
Third-year ".....	11
Second-year ".....	16
First-year ".....	34
Special Students.....	10
	<hr/> 81

The Faculties of POLITICAL SCIENCE, PHILOSOPHY,  
and PURE SCIENCE.....

532

TOTAL.....	2943
BARNARD COLLEGE.....	349
TEACHERS COLLEGE.....	576
AUDITORS.....	20
	<hr/>
TOTAL.....	3888
<i>Deduct double Registration *</i> .....	94
	<hr/>
GRAND TOTAL OF STUDENTS.....	3792
GRAND TOTAL OF OFFICERS AND STUDENTS.....	4328

\* Candidates for the higher degrees with Education as their major subject registered at Teachers College and in the Faculty of Philosophy.

## ACADEMIC CALENDAR

- 1902—Oct. 6—Monday. First half-year, 149th year, begins.  
 Oct. 8—Wednesday. Fellows and Scholars to report themselves as in residence to the Registrar.  
 Oct. 25—Saturday. Last day for payment of first-term fees.  
 Nov. 4—Tuesday. Election Day, holiday.  
 Nov. 27—Thursday. Thanksgiving Day, holiday.  
 Nov. 28—Friday. Holiday.  
 Nov. 29—Saturday. Holiday.  
 Dec. 22—Monday to
- 1903—Jan. 3—Saturday, inclusive. Christmas holidays.  
 Jan. 5—Monday. Exercises of the University resumed.  
 Jan. 26—Monday. Mid-year examinations in Columbia College, Barnard College, and Teachers College begin.  
 Feb. 7—Saturday. First half-year ends.  
 Feb. 9—Monday. Second half-year begins.  
 Feb. 11—Wednesday. Fellows and scholars to report themselves as in residence to the Registrar.  
 Feb. 12—Thursday. Lincoln's Birthday, holiday.  
 Feb. 21—Saturday. Last day for payment of second-term fees.  
 Feb. 22—Sunday. Washington's Birthday.  
 Feb. 23—Monday. Holiday.  
 Mar. 2—Monday. Last day for filing applications for University Fellowships.  
 April 1—Wednesday. Last day for filing applications for examination for higher degrees.  
 April 10—Good Friday. Holiday.  
 May 1—Friday, last day for filing applications for University Scholarships, and for presentation of essays for degree of Master of Arts.  
 May 18—Monday. Final examinations begin.  
 May 30—Saturday. Memorial Day, holiday.  
 June 7—Sunday. Baccalaureate Sermon.  
 June 8—Monday. Class Day.  
 June 10—Wednesday. Commencement Day.  
 June 15—Monday. Entrance examinations begin.  
 July 6—Monday. Fourth Summer Session opens.  
 Aug. 14—Friday. Fourth Summer Session closes.  
 Sept. 14—Monday. Entrance examinations begin.  
 Sept. 21—Monday. Registration begins.  
 Sept. 22—Tuesday. Registration in Columbia College, Barnard College, Teachers College, and the Schools of Law, Medicine, Applied Science and Architecture ceases. Later applications received only upon payment of an additional fee of \$5.  
 Sept. 23—Wednesday. First half-year, 150th year, begins (37 weeks prior to Commencement, 1904).

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